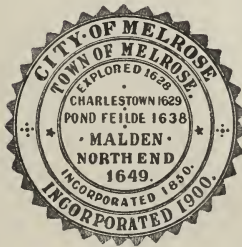


CITY OF MELROSE, MASSACHUSETTS.

Annual Reports, ^x 803.40 1902,

FOR THE FINANCIAL YEAR ENDING
JANUARY 31, 1903.



PUBLISHED BY ORDER OF THE BOARD OF ALDERMEN, UNDER
THE DIRECTION OF THE CITY CLERK.

MELROSE:
THE A. W. DUNTON PRINTING COMPANY.
1903.



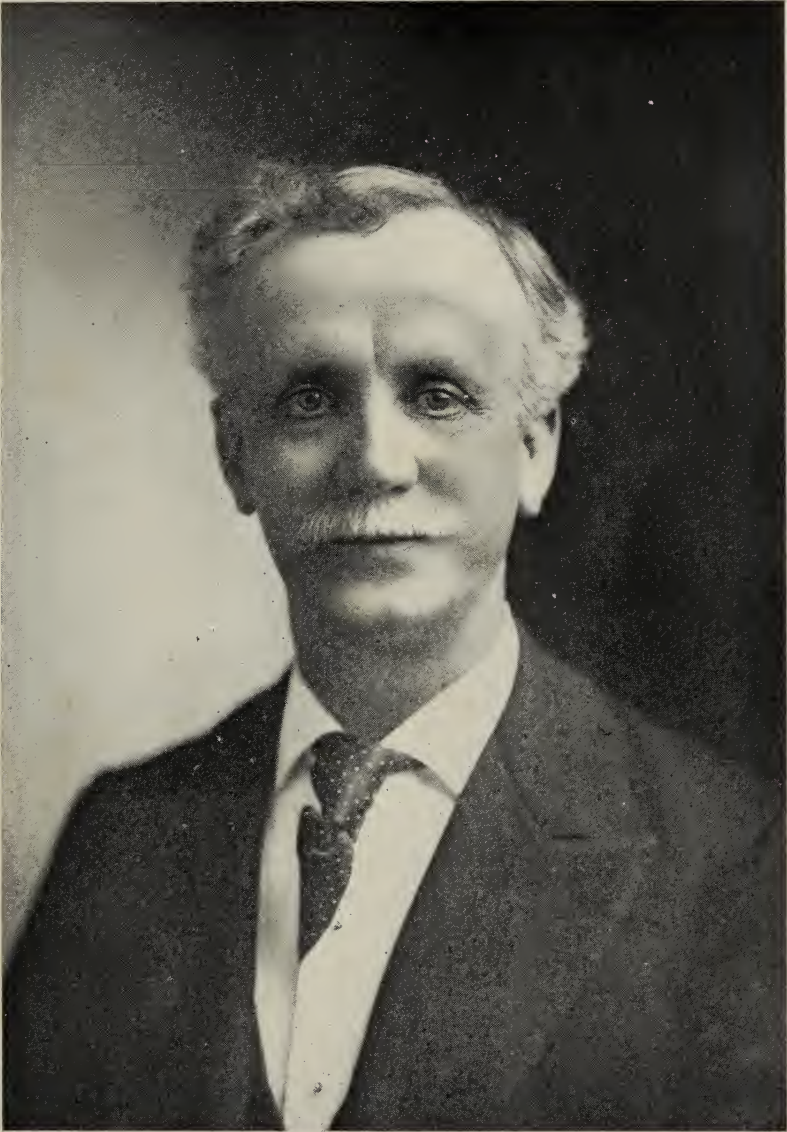
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Government of the City of Melrose.

1902.

MAYOR.

JOHN LARRABEE.

PRESIDENT OF THE BOARD OF ALDERMEN.

JOHN G. ROBINSON.

ALDERMEN AT LARGE.

CHARLES J. BARTON,	Term expires Jan. 1904
ARTHUR H. FOLGER,	" " " 1904
CLARENCE T. FERNALD,	" " " 1904
GEORGE E. BERRY,	" " " 1904

WILLIAM A. CARRIE,	Term expires Jan. 1903
M. FRANK EASTMAN,	" " " 1903
EUGENE H. MOORE,	" " " 1903

WARD ALDERMEN.

Ward 1. WILLIAM N. FOLSOM.	CHARLES ELWELL FRENCH.
Ward 2. GEORGE E. CORNWALL.	OLIVER B. MUNROE.
Ward 3. ALBERT B. FRANKLIN.	DANIEL E. GIBSON.
Ward 4. MOSES S. PAGE.	JOHN G. ROBINSON.
Ward 5. FRED E. EVERETT.	EDWARD S. PAGE.
Ward 6. AARON HILL, JR.	CHARLES N. SHUTE.
Ward 7. ANDREW J. BURNETT.	CHARLES W. EATON.

CLERK OF THE BOARD.

W. DEHAVEN JONES, City Clerk.

Standing Committees of the Board of Aldermen.

Accounts and Surety Bonds.

Aldermen CARRIE, FRENCH, BARTON, CORNWALL and E. S. PAGE.

Buildings.

Aldermen GIBSON, HILL, M. S. PAGE, BURNETT and FOLSOM.

City Clerk and Cemetery.

Aldermen BERRY, M. S. PAGE, FOLGER, SHUTE and EATON.

Claims.

Aldermen MUNROE, CARRIE, CORNWALL, FRANKLIN and E. S. PAGE.

Elections and Returns, Printing and Supplies.

Aldermen EVERETT, SHUTE, BERRY, CORNWALL and GIBSON.

Finance.

Aldermen HILL, M. S. PAGE, BARTON, CARRIE, FRENCH, CORNWALL and FRANKLIN.

Fire Department, Electric and Telephone Wires.

Aldermen MOORE, BURNETT, EVERETT, SHUTE and FOLSOM.

Highways, Sewers, Water and Public Grounds.

Aldermen FERNALD, MOORE, FOLGER, EVERETT, BERRY, EASTMAN and EATON.

STANDING COMMITTEES.

5

Nominations and Resolutions.

Aldermen EASTMAN, M. S. PAGE, FERNALD, BERRY and FOLSOM.

Ordinances, Rules, Orders and Legislative Matters.

Aldermen BARTON, CARRIE, E. S. PAGE, MUNROE and ROBINSON.

Police Department and Licenses.

Aldermen CORNWALL, HILL, FERNALD, FOLSOM and GIBSON.

Public Charities.

Aldermen FRANKLIN, M. S. PAGE and EATON.

Public Health.

Aldermen SHUTE, FRENCH and HILL.

Public Schools and Public Library.

Aldermen FRENCH, BARTON, CARRIE, FRANKLIN and MUNROE.

Solicitor and Collector.

Aldermen FOLGER, EVERETT, SHUTE, GIBSON and EATON.

Special Committee on Settlement with Metropolitan Water Board.

Aldermen FOLSOM, CARRIE, BARTON, MUNROE and ROBINSON.

State, Military Aid and Soldiers' Relief.

Aldermen M. S. PAGE, FRANKLIN and EATON.

Street Railways and Public Lighting.

Aldermen BURNETT, MOORE, FOLGER, EASTMAN and FRANKLIN.

Treasury and Assessors.

Aldermen E. S. PAGE, FERNALD, MOORE, EASTMAN and GIBSON.

CITY OFFICERS.

City Clerk.
W. DEHAVEN JONES.

Assistant City Clerk and Clerk of Committees.
VICTOR C. KIRMES.

City Treasurer.
WILLIAM R. LAVENDER.

City Collector.
JAMES W. MURRAY.

City Auditor.
EDWIN C. GOULD.

Engineer and Superintendent of Public Works.
W. DABNEY HUNTER.

Mayor's Clerk.
EMMA L. LEIGHTON.

City Solicitor.
FRANK L. WASHBURN.

Chief of Fire Department.
A. WILBUR LYNDE.

Chief of Police.
FRANK M. McLAUGHLIN.

Inspector of Buildings.
W. AUGUSTUS GOODNO.

Inspector of Plumbing.
JOHN T. BARKER.

Inspector of Milk and Vinegar.
WILLIAM S. BRIRY.

CITY OFFICERS.

7

Inspector of Animals, Provisions and Food Products.
WILLIAM H. DOLE.

Sealer of Weights and Measures.
WILLIAM L. PIERCE.

Agent State and Military Aid and Soldiers' Relief.
SIDNEY H. BUTTRICK.

Burial Agents.
FRANK T. PALMER. GEORGE P. MARSH.

Assessors.
FRANK R. UPHAM, Chairman.
WILLIAM MORSS. L. FRANK HINCKLEY.

Assistant Assessors.
MYRTON G. WOODBURY.
ALDEN B. SMITH. GEORGE A. BAILEY.

Board of Health .
PAUL H. PROVANDIE, Chairman.
JOSEPH H. ROBINSON. JOHN T. TIMLIN

Overseers of the Poor.
SIDNEY H. BUTTRICK, Chairman.
WILLIAM S. SOULE. MATILDA E. STANTIAL.

Matron Pratt Farm.
MRS. CHRISTIE CHANDLER.

School Committee.

WILLIAM D. STEWART,	.	.	.	.	.	.	Term expires 1905
DON E. CURTIS,	.	.	.	.	.	.	" " "
SARAH A. DAY,	.	.	.	.	.	.	" " "
FRED L. WOOD,	.	.	.	.	.	.	" " 1904
EDWARD B. MARSH,	.	.	.	.	.	.	" " "
BESSIE B. DEARBORN,	.	.	.	.	.	.	" " "
A. F. AMADON,	.	.	.	.	.	.	" " 1903
SUSAN F. FLANDERS.	.	.	.	.	.	.	" " "
GEORGE H. HILL,	.	.	.	.	.	.	" " "
WILLIAM D. STEWART, Chairman.							A. F. AMADON, Secretary.

CITY OFFICERS.

Sinking Fund Commissioners.

JOHN W. FARWELL,	.	.	.	.	.	Term expires 1905
DANIEL RUSSELL,	.	.	.	.	.	" " 1904
ROYAL P. BARRY,	.	.	.	.	.	" " 1903

Trustees of the Public Library.

CHARLES A. PATCH,	.	.	.	.	.	Term expires 1905
MARY L. CHARLES,	.	.	.	.	.	" " "
MARIA L. CHAPIN,	.	.	.	.	.	" " 1904
NEIL A. DIVVER,	.	.	.	.	.	" " "
CHARLES C. BARRY,	.	.	.	.	.	" " 1903
EDWARD M. MUNYAN,	.	.	.	.	.	" " "

Cemetery Committee.

JOHN P. DEERING, Chairman.

OSCAR F. FROST.

LEWIS HENRY KUNHARDT.

EDWIN C. GOULD, Clerk.

ROSCOE A. LEAVITT, Supt. of Cemetery.

Registrars of Voters.

VICTOR C. KIRMES,	.	.	.	.	.	Term expires, 1905
EDWIN L. CRAGIN,	.	.	.	.	.	" " 1904
HERBERT A. MARSH, Chairman,	.	.	.	.	.	" " 1903

W. DeHAVEN JONES, City Clerk, ex officio.

Engineers of the Fire Department.

A. WILBUR LYNDE, Chief.

JOSEPH M. HOLBROOK.

WILLIAM A. SIMPSON.

Measurers of Wood and Park, Weighers of Hay and Coal.

SETH E. BENSON.	GEORGE GOODWIN.	CHARLES B. GOSS.
FRED H. GOSS.	FRANK E. NEWELL.	CHARLES L. WALKER.
OTIS W. PIERCE.	WILLIAM L. PIERCE.	GEORGE M. HALL.

Fence Viewer.

CHARLES F. WOODWARD.

Field Driver.

HERBERT W. CHANDLER.

Pound Keeper.

HERBERT W. CHANDLER.

CITY OFFICERS.

9

Police Officers.

PERMANENT FORCE.

FRANK M. McLAUGHLIN, Chief.
OSBORN E. DROWN.
WILLIAM A. CASWELL.
REDFORD M. RAND.
WILLIAM C. MCCARTHY.
LOUIS B. HEATON.

GEORGE E. FULLER.
HARRY BROWN.
ALLSTON H. PINEO.
WILLIAM H. DOHERTY.
CHRISTOPHER B. THOMPSON.
FRANK N. PIERCE.

SPECIAL OFFICERS.

ELVIN C. SLOCOMB.
JAMES H. MAINE.
HARRY S. ROBERTSON.
CHARLES J. WING.
M. JAMES HANLEY.
JOHN J. HINDS.

PATRICK F. MURRAY.
OSCAR H. LOWE.
ARTHUR L. BRIGHAM.
EDGAR E. SHERBURN.
JEROME T. SMITH.
A. WILBUR LYNDE.

CONSTABLES.

GEORGE W. BURKE.
WILLIAM L. PIERCE.

FRANK M. McLAUGHLIN.
OSBORN E. DROWN.

Bail Commissioner.
SIDNEY H. BUTTRICK.

Civil Service Commissioners.
GEORGE H. DEARBORN.
W. DEHAVEN JONES, Clerk.

WILLIAM A. DOLE.

ELECTION OFFICERS.

Ward 1.

D. FRANK STEARNS, Warden, Rep.	JUSTIN E. DUTTON, Dept. Warden, Rep.
CORYDON W. HARLOW, Clerk, Dem.	JOHN W. NOWELL, Dept. Clerk, Dem.
FRED A. HOUDLETTE, Inspector, Rep.	FREDERICK A. ELLMS, Dept. Insp., Rep
WILLIAM H. GREENLEAF, Insp., Dem.	SIMEON CRAGIN, JR., " " Dem.
CHARLES F. GOURLEY, " Rep.	JOHN H. ADDISON, " " Rep.
MICHAEL D. REARDON, " Dem.	FRANCIS N. BEMIS, " " "

Ward 2.

ORANGE H. COOK, Warden, Rep.	CALVIN W. SAWYER, Dept. Warden, Rep.
AUBREY W. DUNTON, Clerk, Dem.	RUFUS D. KILGORE, Dept. Clerk, Dem.
FRANK E. MORTON, Inspector, Rep.	ALDEN B. SMITH, Dept. Inspector, Rep.
GEORGE W. STINSON, Inspector, Dem.	SAMUEL LEAR, Dept. Inspector, Dem.
GEORGE W. BURKE, Inspector, Rep.	JAMES A. CRAWFORD, Dept. Insp., Rep.
FRANK L. TERWILLEGER, Insp., Dem.	JOHN SIMONDS, Dept. Inspector, Dem.

Ward 3.

FRANK TOWLE, Warden, Rep.	F. P. BOWDEN, Dept. Warden, Rep.
OTIS W. PIERCE, Clerk, Dem.	CHARLES H. KING, Dept. Clerk, Dem.
PETER J. CURRAN, Inspector, Dem.	GEORGE W. VANHORN, Dept. Insp., Dem.
CHARLES H. ROCKWOOD, Insp., Rep.	CLIFTON A. PENDLETON, Dept. Insp., Rep.
JOHN J. KEATING, Inspector, Dem.	MILO N. ROBBINS, Dept. Inspector, Dem.
STEPHEN A. LOVEJOY, Insp., Rep.	CHASE C. WORTHEN, Dept Insp., Rep.

Ward 4.

WALTER H. FLANDERS, Warden, Rep.	BYRON G. MORGAN, Dept. Warden, Rep.
CLARENCE P. HOLDEN, Clerk, Dem.	GEORGE E. HYDE, Dept. Clerk, Dem.
FRANK A. FERNALD, Inspector, Rep.	WILLIAM P. LIBBY, Dept. Inspector, Rep
CURTIS S. GORDON, " Dem.	CHAS. GARDNER BARRY, Dept. Insp., Dem.
CHARLES W. BUTTRICK, " Rep.	CHARLES A. PAGE, Dept. Inspector, Rep.
HAROLD P. WATERHOUSE, Inspe., Dem.	EDWARD E. BABB, Dept. Inspector, Dem.

Ward 5.

MERTON G. WOODBURY, Warden, Rep.	WILLIAM L. KERSHAW, Dept. Ward., Rep.
GEORGE H. DEARBORN, Clerk, Dem.	JAMES P. SIMPSON, Dept. Clerk, Dem.
OTIS K. PHINNEY, Inspector, Rep.	SAMUEL DEARBORN, Dept. Insp., Dem.
THOMAS J. HAWKES, " Dem.	JOHN M. HAMLIN, " " Rep.
FRED L. PUTNAM, " Rep.	BENJAMIN F. STAFFORD, Dept. Insp. Rep.
JOHN KEEFE, " Dem.	GEORGE B. CRANE, " " Dem.

Ward 6.

M. D. VAUGHN, Warden, Rep.	J. SYDNEY HITCHINS, Dept. Warden, Rep.
PETER J. LYNCH, Clerk, Dem.	WILLIAM J. DUFFY, Dept. Clerk, Dem.
HARRY M. EASTMAN, Inspector, Rep.	B. E. LOVEJOY, Dept. Insp., Rep.
STEPHEN C. DEERING, " Dem.	JONATHAN H. ATKINSON, Dep. Insp., Dem.
GEORGE H. TOWNE, " Rep.	FRANK H. GOODWIN, Dept. Insp., Rep.
THOMAS D. BAYNE, " Dem.	GEO. B. GROTTENDICK, Dept. Insp., Dem.

Ward 7.

GEORGE A. BAILEY, Warden, Rep.	ALBERT A. DADLEY, Dept. Warden, Rep.
JOHN J. MCCULLOUGH, Clerk, Dem.	JOHN J. BUCKLEY, Dept. Clerk, Dem.
WALTER B. COPELAND, Inspector, Rep.	WILLIAM F. RUSSELL, Dept. Insp., Rep.
WILLIAM CORNER, " Dem.	JAMES R. DONAHER, Dept. Warden, Dem.
THOMAS SMALLWOOD, Inspector, Rep.	JOHN C. FLATLEY, Dept. Inspector, Rep.
CHARLES F. DOHERTY, " Dem.	EDMUND FAHY, " " Dem.

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF MELROSE

FOR THE

YEAR ENDING JANUARY 31, 1903.

MELROSE:
THE A. W. DUNTON PRINTING CO.
1903.

IN THE SCHOOL COMMITTEE,

MELROSE, March 2, 1903.

Voted,—That the annual report of the Superintendent of Schools be accepted and printed as the report of the School Committee.

F. H. NICKERSON,

Recording Secretary.

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SCHOOL CALENDAR FOR 1903.

Dates in Italics are Vacations and Holidays.

January.							February.							March.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28
25	26	27	28	29	30	31	..	..	..	..	..	..	..	29	30	31	..	..	..	..
..

April.							May.							June.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	1	2	..	1	2	3	4	5	6
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
26	27	28	29	30	..	..	24	25	26	27	28	29	30	28	29	30	..	..	..	..
..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..

July.							August.							September.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	..	1	..	..	1	2	3	4	5
5	6	7	8	9	10	11	2	3	4	5	6	7	8	6	7	8	9	10	11	12
12	13	14	15	16	17	18	9	10	11	12	13	14	15	13	14	15	16	17	18	19
19	20	21	22	23	24	25	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31	..	23	24	25	26	27	28	29	27	28	29	30	..	..	..
..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..

October.							November.							December.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	1	2	3	4	5	6	7	..	..	1	2	3	4	5
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..
..

SCHOOL COMMITTEE FOR 1902.

MEMBERS.

William D. Stewart, 21 Woodland avenue,.....	Term expires	1905
Don E. Curtis, 129 Bellevue avenue,.....	“ “	1905
Sarah A. Day, 45 Ashland street,.....	“ “	1905
Fred L. Wood, 89 East Foster street,.....	“ “	1904
Edward B. Marsh, 15 Cass street,.....	“ “	1904
Bessie B. Dearborn, 315 Main street,.....	“ “	1904
A. F. Amadon, M. D., 9 Vine street,.....	“ “	1903
Susan F. Flanders, 22 Hillside avenue,.....	“ “	1903
George H. Hill, 16 Summer street,.....	“ “	1903

ORGANIZATION OF COMMITTEE.

William D. Stewart, Chairman. A. F. Amadon, M. D., Secretary.

MEETINGS OF THE COMMITTEE.

Regular meetings of the School Committee are held in the Committee Room, High School Building, on the second and fourth Tuesdays of every month, except July and August, at 8 o'clock p. m.

SUPERINTENDENT OF SCHOOLS.

FRED H. NICKERSON, A. M., 492 Lebanon street.

Office : High School Building.

Office Hours : 8 to 9 a. m., on all school days, and 4 to 5 p. m. on Monday, Tuesday, Thursday and Friday.

Telephone : 153-2 Melrose.

Superintendent's Clerk : Helen L. Burr, 119 Wyoming avenue.

SUB-COMMITTEES.

Accounts, Finance, and Estimates.

Mr. Curtis,	Mr. Hill,	Mrs. Flanders.
-------------	-----------	----------------

Courses of Study and Text-books.

Mrs. Dearborn,	Mr. Marsh,	Mr. Hill.
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Supplies and Printing.

Mr. Wood,	Mr. Hill,	Mrs. Flanders.
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Special Studies.

Mrs. Dearborn,	Mrs. Day,	Mr. Curtis.
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Rules and Regulations.

Mr. Marsh,	Mr. Wood,	Mrs. Day.
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School Houses and Janitors.

Dr. Amadon,	Mr. Hill,	Mr. Marsh.
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Teachers and Salaries.

Mrs. Day,	Dr. Amadon,	Mr. Wood.
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High School.

Mrs. Flanders,	Dr. Amadon,	Mr. Curtis.
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Visiting Committees.

HIGHLANDS.

Mr. Stewart,	Mrs. Day,	Mr. Curtis.
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EAST SIDE.

Mr. Marsh,	Mr. Wood,	Mrs. Flanders.
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CENTRE.

Mrs. Flanders	Mr. Hill,	Mrs. Day.
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WYOMING.

Dr. Amadon,	Mrs. Dearborn,	Mr. Wood.
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REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of Melrose:

LADIES AND GENTLEMEN:—The following report, which is the thirteenth in the series of annual reports by the Superintendent of Schools in Melrose, is the fifth that I have had the honor to submit.

In its preparation I have aimed to present only those facts regarding the school system which may be necessary to enable our citizens to judge fairly whether or not the management of the schools during the past year has been such as to justify the expenditure for their maintenance.

It is impossible for any array of facts to give an adequate idea of the actual accomplishment of a school system, for the value of much of the best work of the schools—that which counts for most in the development of true manhood and womanhood—can be properly estimated only by the effects apparent in the future life and character of the individual. Nevertheless it is believed that the following statistical tables, with the comments thereupon, reveal to the unprejudiced view a fairly satisfactory condition of affairs in our schools, not only from the standpoint of accomplishment but also from the point of view of economical management.

STATISTICAL TABLES.
TABLE 1. REGARDING SCHOOL HOUSES AND SCHOOL LOTS.

NAME OF SCHOOL.	LOCATION.	Date of Erection.	Material of which Built.	Method of Heating.	Modern Ventilation.	No. of Rooms in No. Dec. 1902.	No. of Rooms not in use Dec. 1902.	Estimated Value.	SCHOOL LOTS.			Combined Value of School Houses and Lots.
									Size in Square Feet.	Estimated Value.		
High	Main St.	1898	Brick & Stone	Indirect Steam	Yes	16*	14	\$100,000	116,385	\$58,200		\$158,200
Franklin	Franklin St.	1897	Brick ...	" "	"	8*	8	30,000	21,752	6,575		36,575
Washington	Lebanon & Lynde Sts.	1897	" "	" "	"	8*	7	30,000	30,794	4,000		34,000
Horace Mann	Grove & Myrtle Sts. '83 '91†	1897	Wood ...	Hot Air	"	8	0	20,000	26,361	4,475		24,475
D. W. Gooch	Foster & Florence Sts.	'86 '93†	Brick ...	Indirect Steam	"	8	0	25,000	27,815	4,450		29,450
Lincoln	Wyoming Ave.	1897	" "	" "	"	8*	8	30,000	27,604	6,900		36,900
Mary A. Livermore	Main St.	1891	Brick & Stone	Hot Air	"	4	4	12,000	26,555	6,650		18,650
Warren	Warren St.	1893	Wood ...	" "	"	4	0	14,000	18,575	2,300		16,300
Winthrop	Eleventh & First Sts.	1891	" "	" "	"	4	3	11,000	26,544	1,600		12,600
Sewall	Upham St.	1875?	" "	" "	"	4	3	8,000	14,748	7,375		15,375
Whittier	Franklin & Pratt Sts.	1884	" "	" "	"	4	3	7,500	15,000	3,000		10,500
Converse	Fells	1886	" "	" "	No	2	1	5,000	21,017	1,050		6,050
Ripley	Swains Pond Ave.	1886	" "	" "	"	1	0	2,200	14,567	575		2,775
West Side	Franklin St.	1860?	" "	" "	"	1	0	1,000	11,880	3,325		4,325
Totals						80	72	\$295,700		\$110,475		\$406,175

* These buildings have an assembly hall in addition.

§ One of these rooms is used temporarily by the School Committee.

† Enlarged.

TABLE II.
NUMBER OF TEACHERS IN THE DIFFERENT DEPARTMENTS,
DECEMBER, 1902.

	High	Grammar	Primary	SPECIAL TEACHERS.		Totals.
	Gr. x-xi-xii- xiii.	Gr. v-vi-vii- viii-x.	Gr. i-ii- iii-v.	Music	Drawing.	
Males	5	3	0	1	1	10
Females	9	31	40	..	..	80
Totals	14	34	40	1	1	90

COMMENT ON TABLE II.

A comparison of the table with a similar one in the report for 1901 reveals an increase of two in the number of teachers employed Dec., 1902, over the number employed Dec., 1901.

These additional teachers were required by a large increase in the membership of the High School at the opening of the fall term in 1902.

TABLE III.
NUMBER OF PUPILS IN THE DIFFERENT GRADE, DEC., 1902.

SCHOOLS.	Independent Kindergartens.	Grade I.	Grade II.	Grade III.	Grade IV.	Grade V.	Grade VI.	Grade VII.	Grade VIII.	Grade IX.	HIGH SCHOOL.					Total.
											Grade X.	Grade XI.	Grade XII.	Grade XIII.	Post-graduate.	
High	150	101	78	50	5	384
Franklin	47	65	65	63	43	51	..	..	..	..	..	334
Washington	46	46	25	25	54	50	..	39	52	..	..	..	..	..	337
Lincoln	41	45	29	21	50	41	46	..	77	..	..	..	..	..	350
Horace Mann	38	40	37	32	50	42	44	38	..	..	..	..	..	..	321
D. W. Gooch	32	38	38	41	44	38	46	34	..	..	..	..	..	..	311
Mary A. Livermore	45	41	48	37	..	..	..	..	..	..	171
Warren	37	36	33	39	..	..	..	..	..	..	..	..	..	..	145
Winthrop	21	35	21	22	..	..	..	..	..	..	..	..	..	..	99
Sewall	41	47	36	16	29	..	..	..	..	..	..	..	..	..	169
Whittier	53	52	42	..	..	..	..	..	..	..	..	..	..	..	147
Converse	9	8	9	..	..	..	..	..	..	..	..	..	..	..	26
Ripley	6	6	6	..	..	..	..	..	..	..	..	..	..	..	18
Total, Dec., 1902.	..	324	353	276	243	337	277	247	191	180	150	101	78	50	5	2,812
Total, Dec., 1901.	..	356	263	268	317	299	259	231	200	166	114	92	54	44	9	2,672
Total, Dec., 1900.	132	316	268	304	309	270	255	215	202	139	116	61	50	40	9	2,686
Total, Dec., 1899.	140	316	320	289	277	265	242	213	158	122	88	59	47	46	7	2,589

COMMENT ON TABLE III.

A study of the foregoing table shows that during a period of three years, viz., during the period of city government, the total enrollment of the schools has increased practically 9%.

During this same period the total enrollment of the seventh grades has increased 16%, of the eighth grades, 21%; of the ninth grades, 47½%, and of the high school, 55%.

In view of the fact that the population of the city during this period has increased only 6%, these percentages are significant as indicating, it seems to me, that our schools are doing much better service than formerly in prolonging the length of the average school life of our young people, a fact that means much with respect to the standard of educated intelligence throughout the city.

TABLE IV.

AVERAGE NUMBER OF PUPILS PER TEACHER IN THE AVERAGE MEMBERSHIP OF THE SCHOOLS.

GRADES.									High School.	Summary for All Grades.
I	II	III	IV	V	VI	VII	VIII	IX		
23	32	35	38	45	37	45	25	23	25	31

TABLE V.

AVERAGE AGE OF PUPILS IN THE RESPECTIVE GRADES,
SEPTEMBER 1902, 1901, 1900, 1899.

NOTE: Large numbers indicate years, small figures indicate months.

YEAR.	PRIMARY.				GRAMMAR.					HIGH SCHOOL.			
	GRADE ^s .				GRADES.					GRADES			
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
1902.....	5. ⁷	7.	8. ²	9. ³	10. ⁶	11. ⁷	12. ⁸	13. ⁸	14. ⁷	15. ⁷	16. ⁸	17. ⁵	18. ⁴
1901.....	5. ⁹	7.	8. ³	9. ⁴	10. ⁸	11. ⁸	12. ⁹	13. ⁹	14. ⁸	15. ⁹	16. ⁵	17. ⁵	18.
1900.....	6.	7. ³	8. ²	9. ⁵	10. ¹¹	11. ¹⁰	12. ⁹	13. ¹¹	14. ¹⁰	15. ⁷	16. ⁶	17. ²	18. ²
1899.....	6.	7. ³	8. ⁹	10.	11.	12. ¹	12. ¹¹	14.	14. ¹¹	15. ⁸	16. ³	17. ²	18. ⁶

TABLE VI.
SUMMARY OF PRINCIPALS' REPORTS FOR THE SCHOOL
YEAR, 1901-1902.

1. BY SCHOOLS.

SCHOOLS.	No. of Different Pupils Enrolled.	No. of Boys.	No. of Girls.	Average Membership.	Average Attendance.	Per Cent. of Attendance.	One-half Days Absence.	Tardiness.	Corporal Punishment.
High	334	159	175	301.49	289.01	95.65	4,937	142	..
Franklin	361	171	190	355.42	332.84	93.65	8,146	436	5
Washington	360	170	190	328.35	305.68	93.07	8,039	617	6
Lincoln	321	163	158	298.53	287.12	96.18	4,121	354	..
Horace Mann.....	349	180	169	327.38	311.81	95.24	5,670	985	26
D. W. Gooch.....	286	152	134	289.66	275.17	95.00	6,441	279	3
Mary A. Livermore	187	86	101	184.02	174.45	94.26	3,490	253	5
Warren	196	100	96	177.62	166.05	93.49	4,186	209	..
Winthrop	123	61	62	110.44	102.23	92.57	2,953	301	..
Sewall	154	79	75	136.89	123.29	90.00	5,160	265	3
Whittier	106	57	49	92.13	82.87	89.95	3,544	103	..
Converse	29	17	12	27.36	25.37	92.43	753	47	..
Ripley	24	12	12	25.60	22.27	86.99	1,181	105	..
Total	2,830	1,407	1,423	2,654.89	2,498.16	94.10	58,621	4,096	48

2. BY GRADES.

	No. of Different Pupils Enrolled.	No. of Boys.	No. of Girls.	Average Membership.	Average Attendance.	Per Cent. of Attendance.	One-half Days Absence.	Tardiness.	Corporal Punishment.
High	334	159	175	301.49	289.01	95.65	4,937	142	..
Grade IX.....	172	74	98	162.83	156.59	96.17	2,237	186	..
“ VIII	216	95	121	200.58	191.55	95.50	3,162	198	1
“ VII	238	122	116	224.56	212.38	94.58	4,552	428	4
“ VI	250	127	123	260.76	247.67	94.98	4,942	366	4
“ V	295	139	156	271.13	255.87	94.37	5,467	447	20
“ IV	311	153	158	305.42	290.52	95.12	5,458	487	2
“ III.....	288	144	144	265.75	250.70	94.33	6,022	380	2
“ II.....	284	167	117	266.22	249.41	93.31	6,797	556	10
“ I	389	198	191	343.19	306.82	89.40	13,113	754	5
Combined Grades. I-II-III	53	29	24	52.96	47.64	89.77	1,934	152	..
Total	2,830	1,407	1,423	2,654.89	2,498.16	94.10	58,621	4,096	48

TABLE VII.
COMPARATIVE STATISTICS ON ATTENDANCE.

1. AVERAGE MEMBERSHIP.

SCHOOLS.	1897.	1898.	1899.	1900.	1900-01.	1901-02.
High	241.18	220.49	229.19	250.26	264.89	301.49
Franklin	313.40	315.52	343.63	337.42	338.57	355.42
Washington.....	285.56	356.46	332.89	305.52	320.64	328.35
Lincoln .....	... ..	190.79	225.19	292.11	304.98	298.53
Horace Mann	328.11	300.79	280.26	298.20	316.58	327.38
D. W. Gooch.....	365.83	327.17	297.49	271.05	264.82	289.66
Mary A. Livermore.	176.52	179.35	174.59	170.06	181.86	184.02
Warren	138.39	110.64	126.43	142.01	153.00	177.62
Winthrop.....	150.56	135.34	128.64	113.84	103.84	110.44
Sewall.....	170.45	152.32	160.36	164.48	161.58	136.89
Whittier	133.90	115.02	107.60	114.89	120.31	92.13
Converse.....	64.65	50.00	42.96	40.97	37.60	27.36
Ripley	37.00	36.42	36.16	28.34	30.28	25.60
West Side Kind....	.. ..	15.84	20.82	11.43	.. ..	.. ..
Totals	2,505.55	2,506.15	2,506.21	2,540.57	2,598.95	2,654.89

2. AVERAGE ATTENDANCE.

SCHOOLS.	1897.	1898.	1899.	1900.	1900-01.	1901-02.
High	229.60	212.17	220.73	239.56	251.78	289.01
Franklin	292.05	296.78	322.89	314.36	314.31	332.84
Washington.....	252.20	330.91	310.12	286.75	296.88	305.68
Lincoln .....	... ..	178.41	206.91	270.72	286.49	287.12
Horace Mann.....	287.10	284.93	270.55	284.23	302.82	311.81
D. W. Gooch.....	332.10	307.33	282.44	258.76	253.04	275.17
Mary A. Livermore.	164.70	170.59	168.56	163.92	174.71	174.45
Warren	128.75	104.96	120.33	136.12	145.12	166.05
Winthrop.....	130.60	125.52	120.87	106.63	97.50	102.23
Sewall.....	144.50	134.79	144.58	148.93	148.04	123.29
Whittier	112.50	104.90	98.46	105.57	105.98	82.87
Converse.....	56.00	47.87	41.76	40.02	36.11	25.37
Ripley	30.60	31.16	31.54	26.56	27.29	22.27
West Side Kind....	.. ..	13.59	17.76	9.76	.. ..	.. ..
Total	2,260.70	2,343.90	2,357.50	2,391.89	2,440.07	2,498.16

3. PER CENT. OF ATTENDANCE.

SCHOOLS.	1897.	1898.	1899.	1900.	1900-01.	1901-02.
High	95.20	96.22	96.31	95.72	95.05	95.65
Franklin	93.19	94.06	93.96	93.23	92.83	93.65
Washington	91.32	92.83	93.16	93.86	92.59	93.07
Lincoln		93.45	91.88	92.68	93.94	96.18
Horace Mann.	87.50	94.73	96.54	95.32	95.65	95.00
D. W. Gooch.	90.78	93.94	94.94	95.47	95.55	95.24
Mary A. Livermore.	93.19	93.17	96.54	96.39	96.07	94.26
Warren	93.03	94.87	95.18	95.85	94.85	93.49
Winthrop	86.74	92.74	93.95	93.67	94.85	92.57
Sewall	84.78	88.46	90.16	90.55	91.62	90.00
Whittier	83.27	91.20	91.51	91.89	88.16	89.95
Converse	86.62	95.74	97.21	97.68	96.01	92.43
Ripley	82.70	85.51	87.22	93.72	90.13	86.99
West Side Kind....		94.48	85.31	84.51		
Total	90.23	93.53	94.07	94.15	93.88	94.10

COMMENT ON TABLE VII.

While the foregoing table practically explains itself, it may be well to note for the benefit of any who may wish to draw conclusions therefrom that the statistics in the first four columns cover in each case a period corresponding to our municipal year, and that those in the last two columns cover respectively a period corresponding to the natural school year, viz., from September to June. The above change is due to an attempt by the State Board of Education to secure uniformity throughout the Commonwealth in the matter of reporting school attendance for publication in the state reports.

Any attempt, therefore, to draw conclusions from the foregoing table regarding the growth in membership of our schools during the past few years must take into account that the membership for the school year 1901-02 is less than the membership for the municipal year 1902. The membership for the latter period is given in the second division of Table IX, where it is used in computing the per capita cost for the financial or municipal year.

It is encouraging to learn from the third division of the above table that the attendance for the past year is nearly 4% higher than in 1897, the year before I assumed

charge of your schools. For that year the per cent. indicating the regularity with which pupils in Melrose attended to their school tasks was 2% below the average for the State. The per cent. indicating the regularity of attendance of the pupils of the city upon the schools during the past year is 2% above that given in the latest report of the State Board of Education as the average for the State.

Other things being equal this closer regularity of attendance on the part of pupils is indicative of better results in school work.

TABLE VIII.
SCHOOL CENSUS AND ENROLLMENT.

No. persons between 5 and 15 years of age residing in the city, September 1, 1902.....	2,785
No. of persons between 7 and 14 years of age residing in the city, September 1, 1902.....	1,869
No. of different pupils enrolled during the school year from September 1901 to June 1902.....	2,830
No. of pupils over 15 years of age enrolled during the school year, 1901-1902	447
No. of pupils between 5 and 15 years of age enrolled during the school year, 1901-1902.....	2,326
No. of pupils between 7 and 14 years of age enrolled during the school year, 1901-1902.....	1,507
No. of pupils under 5 years of age enrolled during the school year, 1901-1902	57

TABLE IX.
ANNUAL FINANCIAL EXHIBIT FOR 1902.
1. GENERAL STATEMENT.

Receipts.

Regular appropriation for 12 mo. from Feb. 1, 1902 to Feb. 1, 1903.....	\$78,589.00
Special appropriation for unpaid bills of 1901:	
Advertising and Printing.....	\$ 1.75
Miscellaneous.....	25 13
Repairs.....	331.45
	<hr/> \$ 358.33
Supplementary appropriation for	
Salaries.....	\$ 400.00
Books and Supplies.....	1,200.00
Repairs	600.00
Furniture.....	100.00
	<hr/> \$2,300.00

Amount available for 12 mo. from Feb. 1, 1902, to Feb. 1, 1903, \$81,247.33

Expenditures.

Salaries (Teachers, Janitors, Superintendent, Clerk)	\$62,268.01
Books and Supplies.....	5,199.95
Fuel.....	6,541.67
Repairs, including \$331.45 of unpaid bills of 1901..	3,831.17
Miscellaneous, including Washington School side-walk \$300, and unpaid bills of 1901, \$25.13	1,878.65
Furniture	600.00
Transportation	509.00
Advertising and Printing, including \$1.75 of unpaid bills of 1901.....	251.75
High School and Teachers' Libraries.....	99.85
Total expenditure for 12 mo. from Feb. 1, 1902 to February 1, 1903.....	<u>\$81,180.05</u>
Unexpended balance.....	<u>\$67.28</u>

2. AVERAGE EXPENDITURE PER PUPIL.

Based on the average membership of the schools for the Municipal year (2,715. 5).

For Teaching.....	\$19.77
For Supervision (Supt. and Clerk).....	.98
For Books and Supplies.....	1.91
For Janitors.....	2.21
For Fuel.....	2.41
For Printing.....	.09
For Transportation.....	.18
For High School and Teachers' Libraries.....	.03
For Miscellaneous purposes <i>not including</i> repairs, furniture and new buildings.....	.69
Total cost <i>excluding</i> repairs, furniture and new buildings	<u>\$28.27</u>
For Furniture.....	.22
For Repairs.....	1.41
Total cost for all purposes.....	<u>\$29.90</u>

TABLE X.
COMPARATIVE FINANCIAL EXHIBIT COVERING THE PAST FIVE YEARS.
I. GENERAL STATEMENT.

	1898	1899	1900	1901	1902
RECEIPTS.					
Balance from previous year	\$ 1,215.39	\$ 5,022.69	.....	.....	.....
Appropriation for year	75,000.00	65,000.00	\$77,000.00	\$77,000.00	\$78,589.00
Receipts for Tuition, etc.	354.50	1,061.31	1 176.08	1,932.11	.....
Supplementary Appropriation .....	.....	.....	.....	2,450.00	2,658.33
Total Amount Available	\$76,569.89	\$71,084.00	\$78,176.08	\$81,382.11	\$81,247.33
EXPENDITURES.					
Salaries	\$50,743.37	\$56,486.49	\$60,141.47	\$61,384.35	\$62,208.01
Books and Supplies	5,118.95	5,775.21	5,123.00	5,799.26	5,199.95
Fuel	6,003.63	3,806.11	7,060.08	7,449.89	6,541.67
Repairs	3,409.80	2,884.50	2,681.89	3,700.00	3,831.17
Miscellaneous	1,763.15	1,806.34	1,771.87	1,478.62	1,878.65
Furniture	4,323.00	1,564.23	1,036.07	599.71	600.00
Transportation .....	.....	.....	.....	480.00	509.00
Advertising and printing	185.30	260.45	.....	270.95	251.75
High school and teachers' libraries .....	.....	.....	361.70	99.76	99.85
Total expenditure	\$71,547.20	\$72,583.3	\$78,176.08	\$81,262.54	\$81,180.05
Unexpended balance	5,022.69	.....	.....	119.57	67.28
Excess of expenditure .....	.....	1,499.33	.....	.....	.....

2. AVERAGE EXPENDITURE PER PUPIL.
(Based on average membership for the financial year.)

	1898	1899	1900	1901	1902
For teaching.....	17.44	19.10	20.31	20.23	19.77
For supervision.....	.83	.94	.98	1.07	.98
For books and supplies.....	2.04	2.38	2.02	2.23	1.91
For janitors.....	1.98	2.50	2.38	2.31	2.21
For fuel.....	2.39	1.52	2.78	2.87	2.41
For printing.....	.07	.10	.14	.10	.09
For transportation.....				.18	.18
For high school and teachers' library.....				.04	.03
For miscellaneous (not including repairs, furniture and new buildings).....	.71	.72	.70	.57	.69
Total cost (excluding furniture, repairs and new buildings).....	25.46	27.18	29.31	29.60	28.27
For furniture.....	1.72	.62	.41	.23	.22
For repairs.....	1.36	1.15	1.06	1.42	1.41
Total cost for all purposes.....	28.54	28.96	30.77	31.25	29.90
Similar average for the State at large.....	36.04	35.53	34.62	34.92	36.42

COMMENT ON TABLE X.

School expenditures were discussed so thoroughly in my report for 1901 that little need be said in the present report regarding this phase of school management. However, for the benefit of any who may feel that the committee are extravagant in the management of the schools, I insert the following tabulated results of a brief study of the expenditures for public schools in the eleven cities of Middlesex County. The figures that appear in this table are based upon sworn statements of the school authorities of the several cities as published in the latest report of the State Board of Education, viz., the report of January, 1902.

A STUDY OF THE EXPENDITURE FOR SCHOOLS IN THE
ELEVEN CITIES OF MIDDLESEX COUNTY.

Based upon statements of School Committees according to the latest
 Report of the State Board of Education, viz., the Report
 of January, 1902.

CITIES.	Average valuation per capita of the population.		Am't raised by local taxation and expended for each child in the average membership of the schools for all purposes.		Average Wages per Month.							
					Male Teachers.				Female Teachers			
					Amounts	Rank	Amounts	Rank	Amounts	Rank	Amounts	Rank
Newton	\$1,715.98	1	\$38.01	1	\$210 55	1	\$64.45	3				
Medford....	1,083.99	2	31.19	8	140.45	8	60.34	5				
Cambridge .	1,028.07	3	35.81	2	166.80	3	68.76	1				
Melrose....	985.83	4	30.70	9	118.89	11	52.15	11				
Waltham ..	853.88	5	33.80	5	141.13	7	59.44	6				
Somerville..	851.89	6	34.58	4	181.00	2	64.70	2				
Malden	810.59	7	31.82	7	144.16	6	59.11	7				
Everett	782.62	8	22.75	6	140.00	9	53.09	10				
Lowell	752.84	9	35.60	3	154.25	4	61.37	4				
Woburn ...	740.56	10	21.32	11	130.00	10	54.82	9				
Marlboro ...	676.03	11	25.98	10	145.56	5	54.83	8				
Average for County	912.06	..	32 81	..	151.16	..	57.65	..				
Average for State	1,055.52	..	33.98	..	140.94	..	52.75	..				

It appears from the above table that, while the average per capita valuation in Melrose is greater than in any other city in the county, excepting Newton, Medford and Cambridge, there are only two—Woburn and Marlboro—that raise by local taxation and expend for each child in the average membership of the schools less than Melrose.

It also appears with respect to this expenditure that Melrose is \$2.11 per pupil below the average for the entire county, and \$3.28 per pupil below the average for the state at large.

It appears, further, that the average wages per month both for male and for female teachers in every one of the eleven cities above mentioned are higher than in Melrose, and that a similar condition is true with respect to the

average wages, not only for the county at large, but also for the state. Therefore, there would seem to be no ground for the statement that one sometimes hears that the schools of Melrose are costing more relatively than those of neighboring cities. It is well occasionally to face facts.

Reference to the second division of Table X, which deals with per capita expenditures for the past five years, reveals the additional fact that the average cost per pupil in Melrose for all purposes has been less each year than a similar average for the state at large. It may be gratifying to taxpayers to note, also, that our average per capita expenditure for 1902 is \$1.35 less than in 1901.

Whether or not, with reference to the highest interests of the city, these figures should afford a sense of unqualified satisfaction is at least an open question.

TABLE XI.
CHANGES IN THE TEACHING FORCE DURING 1902.
1. WITHDRAWALS.

Name of Teacher.	Position Held.	Date of Withdrawal.
J. Helen Bartholomew.....	8th grade, Franklin.....	..... January 1902
Ina M. Lancaster.....	7th grade, D. W. Gooch.....	..... January 1902
Leslie King.....	Kindergarten, Sewall.....	..... February 1902
Helena L. Wright.....	Principal's assistant, Gooch.....	..... March 1902
Flora M. Haley.....	5th grade, Horace Mann.....	..... March 1902
Florence E. Worthing.....	Principal's assistant, Warren & Livermore.....	..... March 1902
Imogene Conland.....	8th grade, Franklin.....	..... April 1902
Everett H. Scott.....	English Dept., High.....	..... April 1902
Maud Nickerson.....	6th grade, Horace Mann.....	..... June 1902
Naomi E. Stevens.....	7th grade, Mary A. Livermore.....	..... June 1902
Helen Stevens.....	8th grade, Franklin.....	..... June 1902
H. H. Ruston.....	English Dept., High.....	..... June 1902
Marion D. Dean.....	Principal's assistant, D. W. Gooch.....	..... October 1902
Cora G. Burleigh.....	Principal's assistant, Lincoln.....	..... November 1902
A. Pauline Ham.....	6th grade, Franklin.....	..... November 1902

2. TRANSFERS.

Name of Teacher.	Position Held.	Position to which Transferred.	Date.
A. Louise McCormick.....	7th grade, Horace Mann.....	5th grade, Horace Mann.....	..... March
Minnie F. C. Snow.....	4th grade, Washington.....	4th grade, Franklin.....	..... Sept.
Alma J. Guptill.....	4th grade, Franklin.....	5th grade, Franklin.....	..... Sept.
A. L. McCormick.....	5th grade, Horace Mann.....	6th grade, Horace Mann.....	..... Sept.
Persis M. Sibley.....	7th grade, Horace Mann.....	7th grade, Livermore.....	..... Sept.
Mary S. Haley.....	5th grade, Lincoln.....	6th grade, Lincoln.....	..... Sept.
Mary R. Clarke.....	6th grade, Lincoln.....	5th grade, Lincoln.....	..... Sept.
Jeannette A. Doane.....	1st grade, Lincoln.....	2nd grade, Lincoln.....	..... Sept.
Grace C. Albee.....	2nd grade, Winthrop.....	1st grade, Lincoln.....	..... Sept.
Lucy E. Shute.....	5th grade, Livermore.....	6th grade, Livermore.....	..... Sept.
Katharine V. Rowe.....	6th grade, Livermore.....	5th grade, Livermore.....	..... Sept.
Annie Dinnie.....	3rd grade, Winthrop.....	2nd grade, Winthrop.....	..... Sept.
Lena D. Marshall.....	2nd & 3rd grades, Lincoln.....	3rd grade, Sewall.....	..... Sept.
Isabelle L. Atwood.....	3rd grade, Franklin.....	3rd grade, Whittier.....	..... Sept.

3. NEW TEACHERS.

Name of Teacher.	Position Held.	Position to which elected.	Began Work.
Harriet Benson.....	7th grade, Quincy, Mass.....	7th grade, D. W. Gooch.....	..... Jan.
Emma C. French.....	Kindergarten assistant, Malden.....	1st grade, Sewall.....	..... Feb.
Persis M. Sibley.....	7th grade, Norwood, Mass.....	7th grade, Horace Mann.....	..... March
Jane E. Warfield.....	Not teaching.....	Principal ass't Warren and Livermore..	..... April
H. H. Ruston.....	Student Harvard University.....	English Dept., High.....	..... April
Marion D. Dean.....	Colchester Academy, Conn.....	Principal's assistant, Gooch.....	..... April
Helen B. Stevens.....	Not teaching.....	8th grade, Franklin.....	..... April
Kenneth Beal.....	H. S., Portsmouth, N. H.....	English Dept., High.....	..... Sept.
Sara Fisher.....	Not teaching.....	Stenography, High.....	..... Sept.
Sylvia Williams.....	Not teaching.....	8th grade, Franklin.....	..... Sept.
Aubigne Lermont.....	Student, Bridgewater Normal.....	7th grade, Horace Mann.....	..... Sept.
Henrietta Cowan.....	Grammar grade, Weymouth.....	5th grade, Horace Mann.....	..... Sept.
Mary E. Deans.....	1st grade, Cohituate.....	1st grade, Winthrop.....	..... Sept.
Helen Stevens.....	Grammar grade, Wakefield.....	Principal's assistant, D. W. Gooch.....	..... Oct.
Edith Maxwell.....	Mixed grades, Portland.....	6th grade, Franklin.....	..... Nov.
Edith Brown.....	Grammar grade, Rutland.....	Principal's assistant, Lincoln.....	..... Nov.
Edith Baker.....	Not teaching.....	Pupil teacher, High.....	..... Nov.

COMMENT ON TABLE XI.

The first division of the foregoing table shows that fifteen teachers have withdrawn from the corps during the year. Seven of these resigned to accept increased salaries elsewhere and eight withdrew for various other reasons which it is of no value to review.

Of the fourteen transfers indicated in the second division of the table, seven have been occasioned by the removal or consolidation of grades, and seven by an endeavor to secure increased efficiency in the work.

The third division indicates that seventeen new teachers have come into the corps during the year. It is gratifying to report, as indicative of the care that is being exercised in the choice of our teachers, that every one of this number is doing creditable work, while several are doing superior work. While occasional mistakes in the selection of teachers must be expected, yet, in the main, such a result as the above will be secured whenever and wherever merit alone governs in the appointment of teachers.

TABLE XII.

PROFESSIONAL TRAINING OF TEACHERS.

1.	Proportion of teachers who are graduates of Normal Schools,	33%
2.	“ “ “ “ have had a partial course at Normal Schools,.....	9%
3.	Proportion of teachers who are graduates of Colleges,.....	14%
4.	“ “ “ “ have had a partial course at College,.....	7%
5.	Proportion of teachers who are graduates of Kindergarten Training Schools,.....	11%
6.	Proportion of teachers who have had a course in City Training Schools,.....	6%
7.	Proportion of teachers who are without training in College, Normal School, Kindergarten School or City Training Class,	20%

COMMENT ON TABLE XII.

The above table indicates that 59% of our teachers have had what may be termed special professional training, 21%

have had college training, in part at least, and 20% have had no preparation beyond the high school, except such as they may have added by private study subsequently.

Special professional training does not guarantee a teacher's success by any means. There are other qualifications, partly inborn and partly acquired outside of training schools, that have great influence in determining the degree of a teacher's success. Nevertheless it is reasonable to believe that special professional training tends to develop in an individual a higher degree of professional spirit and a higher ideal regarding the responsibilities of a teacher than would otherwise result. To the extent that this may be true, professional training conduces to greater worth in a teacher. Therefore, while it is not to be expected, so long as high school salaries remain at their present figure, that we shall be able to secure many high school teachers who have added special training to the required college preparation, and while it may not be wise to legislate to the end that only professionally trained teachers shall be employed in the grades, it is wise, I feel, to put a premium upon professional preparation by increasingly emphasizing it as one of the requisites for an appointment as teacher in Melrose.

TABLE XIII.

TIME LOST BY TEACHERS FOR SICKNESS, ETC., 1902.

SCHOOL.	No. of Teachers.	No. of Teachers who have lost time.	Days Lost.	Average per Teacher for building.
High	12	9	39	3 $\frac{1}{2}$ days
Franklin	9	5	29	3 $\frac{2}{5}$ "
Washington	10	6	22	2 $\frac{1}{5}$ "
Lincoln	10	7	24	2 $\frac{2}{5}$ "
Horace Mann.....	10	8	27	2 $\frac{7}{10}$ "
D. W. Gooch.....	10	6	27 $\frac{1}{2}$	2 $\frac{3}{5}$ "
Mary A. Livermore..	5	5	38	7 $\frac{3}{5}$ "
Warren	6	2	8 $\frac{1}{2}$	1 $\frac{5}{12}$ "
Winthrop	6	5	10	1 $\frac{5}{6}$ "
Sewall	5	5	20 $\frac{1}{2}$	4 $\frac{1}{10}$ "
Converse.....	1	0	..	0 "
Ripley	1	1	8	8 "

TABLE XIV.
COMPARATIVE STATISTICS REGARDING CORPORAL
PUNISHMENT.

YEAR.	No. of Cases.	No. Different Teachers Reporting the Same.	Per cent. of Teachers Reporting no Cases.
1899 (Jan. -June)	66	22	71%
1899-1900 (Sept.-June)	20	10	88%
1900-1901 (Sept.-June)	32	16	80%
1901-1902 (Sept.-June)	48	18	79%

COMMENT ON TABLE XIV.

While the above table indicates that our schools are being conducted with a reasonable degree of freedom from corporal punishment, there appears an increase in the number of cases reported during the past year over the number for the preceding year that, as I review the matter, does not seem to me to have been required. So far as the Superintendent is responsible for such result, I propose to put forth effort to correct this tendency during the coming year.

OUR FIRST GRADES.

The change whereby our first grades became modified kindergartens at the opening of the term in September, 1901, was fully discussed in my last annual report. The work of this grade during the first year of the change was necessarily more or less experimental and indefinite. At the opening of the present school year, however, the plan of work was thoroughly systematized and nearly every first grade room supplied with kindergarten furniture, so that at present pupils and teachers are working under more favorable conditions than during the first year, with correspondingly improved results.

The pupils in this grade have been further affected by the change from a double to a single session which went into effect in September, 1902. This change is beneficial in three ways:

1. Educators are coming to believe that, at the age at which children take up first grade work, the additional apparent progress of pupils in the definite lines of school work by being in school during two sessions daily hardly compensates for the extra nervous strain put upon them by the afternoon session.

2. Kindergarten work requires that the teacher shall do a large amount of outside preparation of material for children's use. Two sessions daily left insufficient opportunity for our teachers to prepare such material properly without depriving themselves of the rest and recreation that are necessary to keep a teacher in proper condition to do effective work in the class-room. Under the single-session plan our kindergarteners have opportunity to prepare properly for the work of the following morning.

3. As is generally understood, the present plan of conducting the work of our first grades calls for two teachers in each room—one a kindergartener, the other a regular primary teacher. The single-session plan gives opportunity for the primary teachers to be employed afternoons to assist the second grade teachers in their work, thereby making it possible to meet more nearly the needs of every pupil in that grade.

The above considerations would seem to justify the change.

THE HIGH SCHOOL.

In previous reports I have discussed matters pertaining to the High School so fully that it seems sufficient at this time to express the belief that the school is in a thoroughly prosperous condition. This statement is not to be construed to mean that there is not ample opportunity for improvement in the school, for such a condition can exist with reference to earthly things only when they are defunct. It means simply, that, in my judgment, careful and unprejudiced study of the work that our High School is doing will lead inevitably to the conclusion that the school is increasingly fulfilling the purpose for which a high school should exist.

The following statistics, with such comment as may help in their interpretation, are offered in support of the above conclusion.

I. *Regarding Attendance:* The following table gives the maximum number of pupils registered in the High School in September of each of the years indicated.

YEAR.	Fourth Class.	Third Class.	Juniors.	Seniors.	Post Graduates.	Total.
1898.....	76	62	59	29	6	232
1899.....	88	59	47	46	7	247
1900.....	116	61	50	40	9	276
1901.....	119	95	58	44	9	325
1902.....	155	103	79	51	6	394

The above figures show that during the last four years the registered attendance upon the High School has increased practically 70%. This rapid increase of attendance has not resulted from any influx of pupils whose parents have moved to Melrose, for our population today is only 6% greater than in 1898. Neither can it be attributed to a lower standard of requirement for entrance to the High School. As a matter of fact the standard of preparation for pupils who enter that school today is higher than in 1898. Nor can it be accounted for to any great extent by the attractive force of a new building, for, although the present high school building was opened to pupils for the first time in September, 1898, a study of the above table shows that during the past year, when the influence of the new building to attract pupils must have been less than formerly, the per cent. of increase in the attendance has been practically three and a half times that from September, 1898, to September, 1899.

Undoubtedly the slight increase in our population, to which I have referred, and the newness of our high school building have both contributed a little to increase the attendance upon our High School, but, in my judgment, the principal cause lies in the fact, suggested in my last year's report, that the present administration and teaching in that

school is such that the school "is increasingly meeting the needs of our young people as those needs are estimated by fathers and mothers."

II. *Regarding Graduates:* The following statements regarding the forty-two pupils who graduated in June, 1902, are somewhat interesting. Five are taking courses in Harvard College; four have entered Massachusetts Institute of Technology; one is attending Boston College; one, Boston University; one, Simmons College; one, the University of Maine; one, the Massachusetts State College of Agriculture; one, Salem Normal School; one, the Boston Normal School of Gymnastics; one, the Cutter School of Short-hand; one is studying Music; one is traveling, previous to entering Dartmouth College; six are taking post-graduate work in the High School; two are teaching music (piano); three are taking lessons in Domestic Science at home, and twelve are engaged in business positions.

III. *Regarding Choice of Studies:* The following table will be found valuable for one who may be interested to trace the effect of the elective system upon high school training.

LINES OF STUDY.	CLASSES.					Totals.
	Fourth.	Third.	Junior.	Senior.	Post Graduate.	
English	149	101	78	49	5	382
History	145	36	19	33	..	233
Mathematics	143	56	24	8	1	232
Book-Keeping .....	...	..	..	13	..	13
Physics .....	...	66	40	Col. 11	..	117
Chemistry .....	...	..	27	..	..	27
Latin	75	35	22	15	..	147
Greek .....	...	8	10	5	1	24
German .....	...	42	13	15	..	70
French	23	85	37	23	1	169
Stenography .....	...	..	47	12	1	60
Typewriting .....	...	..	47	12	1	60
Music	113	58	29	12	1	213
Drawing	73	47	24	9	..	153
Commercial Law	...	48	..	..	..	48
Commercial Geography	...	..	..	..	..	..
Commercial Arithmetio. .	77	..	..	..	..	77
Grammar	47	...	..	..	..	47

IV. *Regarding the Cost of the High School:* The following table shows the total and the per capita cost for the High School during the past three years.

EXPENDITURES FOR HIGH SCHOOL.

1. GENERAL STATEMENT.

ITEMS.	1900		1901		1902	
	Expenditures.	Per cent. of Expenditures for all schools.	Expenditures.	Per cent. of Expenditures for all schools.	Expenditures.	Per cent. of Expenditures for all schools.
Salaries (teachers, janitor, engineer)	\$14,313.33	24	\$14,202.50	23	\$14,479.50	23
Books and supplies.....	2,105.98	41	1,716.44	30	1,565.49	30
Fuel	1,428.17	20	1,800.51	24	1,929.59	29
Sundries	340.93	19	409.33	27	705.01	22
High school library.....	.....	.....	79.61	.....	49.57	.....
Total for support of sch'l	18,188.41	.....	18,208.39	.....	18,747.16	.....
Repairs and permanent improvements	320.66	12	591.20	16	359.45	9
Total for all purposes...	\$18,509.07	24	\$18,799.59	23	\$19,106.61	24

2. PER CAPITA EXPENDITURE.

(Based on average membership for financial year, (339.67.)

	1900	1901	1902
Salaries (teachers, janitor, engineer)	\$57.19	\$50.95	\$42.68
Books and supplies.....	8.42	6.16	4.61
Fuel	5.71	6.46	5.68
Sundries	1.36	1.47	2.08
Repairs and permanent improvements	1.28	2.12	1.06
High school library.....	.....	.28	.14
Total for all purposes.....	\$73.96	\$67.44	\$56.25

In the annual report for 1901, I expressed the expectation that during 1902 there would be a reduction in the per capita cost of our High School. That the expectation was well founded is demonstrated by the above table which shows a reduction of practically 17% in the average per capita expenditure for 1902.

This reduction is due mainly to an increase of nearly 22% in the average membership of the school for the corresponding period.

PROGRESS OF THE YEAR IN GENERAL.

Nothing radical has been attempted during the past year. Whatever changes have been made either in courses of study or in methods of teaching and administration are mainly such as have been necessary in the development of plans previously adopted. While the results that have been secured are still far short of my ideal, I am gratified to report that progress toward that ideal has been made and that the quality of the educational product of our schools today shows improvement over that of a year ago.

In this connection, I may add that the results secured in some lines are not as satisfactory as they might have been, because, owing to an entirely inadequate appropriation by the City Government for books and supplies, the schools were handicapped during a portion of the year by an insufficient supply of proper material for use by the pupils.

I mention this fact in order that the public may judge the School Department charitably with respect to any failure that may appear in the educational results of the year.

Under the above general heading a few specific points may be appropriately considered.

I. *School Property*: It is inevitable that there should be in general a degree of annual deterioration in the condition of our school buildings and their furnishings. I am glad, however, to acknowledge the excellent work done during the year by the Committee on School-houses to reduce such deterioration to the minimum.

While there remains much to be done before our school-houses shall become ideal places of resort for pupils, yet, on the whole the condition of the school property of Melrose is a credit to the City and a witness to the efficiency of those who have had charge of our repairs, not only during the past year, but in previous years.

II. *Janitors*: In general, the work of our janitors is to be commended. In the majority of cases the school buildings have been kept in good condition; in some cases they have been kept in excellent condition; in a few cases they have been kept in an unsatisfactory condition. This last fact is due partly to the arrangement for janitor service in connection with a few buildings, and partly to the inefficiency of certain janitors. Such inefficiency has been in a measure remedied during the year, but there remains need of further improvement at points that I shall be pleased to designate at the pleasure of the Sub-Committee on School-houses and Janitors.

III. *Music and Drawing*: In previous years the special reports of the Supervisors of these subjects have been incorporated as part of the report of the Superintendent. For the sake of brevity I have omitted to do this for the present year. However, from the reports that have been received from the Supervisors, from consultation with teachers, and from personal observation of results, I feel justified in reporting (1) with respect to music, that the work is being directed with an intelligent regard for what should be attempted in this line in public schools, with a good understanding of how to accomplish the desired results, and with vigor; (2) with respect to drawing, that, while in general commendable work is being done and while in some cases, where teachers are putting forth extra effort and drawing upon their pocket-books to secure additional preparation for work in this line, excellent results are secured, I must confess to a degree of disappointment that, on the whole, more is not being accomplished. When I take into account the character of the homes from which the majority of our pupils come, it seems that here in Melrose we ought to do work in this line that shall rank as superior.

OUR EDUCATIONAL AIM.

Believing that our citizens may be more interested in a statement of the general purpose that controls in the teaching and administration of our schools than in a detailed

recital of the work of the schools for the year, it has seemed best to devote a portion of this report to a brief consideration of the educational aim in accordance with which our school system is administered. If I mistake not, public schools are supported because it is generally believed that a degree of definite school training is necessary to every citizen in order that the highest interests of society in a democratic state may be secured, and because it is further generally believed that such training can be supplied most readily and effectively by means of a public school system.

Training for citizenship in organized democratic society, therefore, may be assumed as the end for which public schools exist. In general the foregoing statement defines the controlling purpose in the administration of the schools in Melrose. However, before such purpose can be of any particular benefit as a controlling principle of work in school administration, it is necessary that those who direct such administration should have a reasonably clear conception of the needs of organized society in a democratic state in order that the highest interests of its members may be subserved and that democracy as a principle of state may perpetuate itself.

Roughly speaking, I believe that the following statements fairly summarize those needs :—

I. Organized democratic society at its best requires for one thing that its members shall be self-supporting. This demand puts upon the public schools the obligation to put forth all possible effort to train young people thoroughly in those subjects and in those ways that contribute most to make self-supporting members of society. It is generally thought that a certain amount of careful training in those subjects known as the "Three R's" is essential to self-supporting citizenship. Therefore, so far as this be true, a school system that does not ground its pupils well in this elementary knowledge may be said not to have fulfilled its mission.

So far as the schools of Melrose are concerned there has been an earnest and intelligent endeavor to meet the above-mentioned obligation, and I think it may be fairly claimed that a reasonable degree of success has been attained.

II. Beyond the fundamental knowledge and training to which I have referred as contributing to self-supporting citizenship, the well-being of our social organization requires that the largest possible number of citizens shall have a breadth and length of intellectual training that will enable them to assist intelligently in the solution of the social, political and economic problems that are inevitable in the evolution of democracy.

This need puts upon those who have charge of public school interests the added obligation (1) to arrange courses of study that are sufficiently comprehensive to appeal to all sides of the child's intellectual nature, and (2) to be watchful that school management and teaching shall be of a character to utilize fully the means for intellectual training provided by ample courses of study and to encourage every child to make the period of his school training as long as conditions will permit.

During the period that I have had the honor to act as your Superintendent of Schools, I have labored steadily for the realization of the foregoing end. Not all has been accomplished that has been desired, but that there has been a fair degree of successful accomplishment is evident (1) by the fact that the equipment of our pupils both in point of knowledge and in intellectual power as they reach the High School is stated by the Principal of that school to be steadily improving, (2) by the creditable work done by our graduates in higher institutions of study, and (3) by the steady increase during the past few years in the membership of our higher grades. During the past three years the membership of our schools as a whole shows an increase of $9\frac{2}{10}$ per cent. During the same period the membership of our high school has increased $48\frac{6}{10}$ per cent. Considering that the increase of population in the city for the corresponding period has been only $5\frac{2}{10}$ per cent. and that practically all pupils in the high school are beyond the compulsory school age, it seems a fair inference that this increase in the average length of the school life of our pupils is to be attributed largely to the influence emanating from the methods of management and teaching that characterize our schools today.

3. There is an aim higher, in my judgment, than either of the foregoing that should be held in mind steadily by all who direct the interests of public schools or are in any way responsible for their output, viz., the development of manly and womanly character in its best sense. One who has thought out for himself our supreme public need is led naturally to this conclusion. Knowledge and mental discipline are valuable factors in social existence, but above and beyond both, as an element of value in democratic citizenship, is strong moral character. One whose observation is at all extended will readily admit that it is quite possible for men to be splendidly educated intellectually and yet to be thoroughly undesirable citizens because of vicious tendencies which they have not been trained to restrain properly. In my judgment, society can never be safe until those who direct the agencies that are dedicated to the special work of educating young people commit themselves unqualifiedly to the belief that the supreme aim in educational effort is to develop a high type of manhood and womanhood.

Believing thus, the character-building aim is made prominent in the work of our schools today. It is hardly possible to estimate accurately how well this purpose is being carried out, because, as I suggested in the opening paragraph of this report, the best results from a teacher's efforts are not immediately examinable. They can be determined only when those who are the school boys and school girls of today shall have been tried as future men and women in the field of social endeavor. Even then one who sits in judgment will need to take into account that school training is only one of many educational influences that help to determine what young people shall be as future social units. It is a sad fact that the fierce competition of the times, in nearly every line of human effort, for that which the world in general chooses to regard as success, tends to develop in the social mind a tolerance for moral ideas and practices that are calculated to neutralize the effect of much of the best work of our schools in the line of character building. Therefore, it is hardly judicial to assume, even if the output

of public school training should fail to measure up to what we would wish, that the schools have neglected their opportunity and duty in this respect.

While, as I have suggested, we cannot today accurately estimate the degree of our success in seeking this higher educational aim in our schools, I am nevertheless convinced of three things with reference to our efforts in this line:

(1) That this is the highest duty of teachers with pupils; (2) that the attainment of this end carries with it the attainment of the subordinate ends of knowledge and intellectual training; (3) that however imperfectly we may be carrying out this higher purpose in our schools (and we are far from satisfying ourselves) the community will gain something in moral earnestness and purpose in the years to come from the efforts that are being put forth in the schools of Melrose today to build up strong character in our young people.

While it is difficult to put one's educational aim into form of expression except in general terms, I trust that what has been said will make clear the purpose by which our school administration is moved in its work, and that this purpose may commend itself to the body of our citizens as being, in the large interpretation which should be given it, the supreme end of education.

SUGGESTIONS.

I. *Salaries:* In order that there may be a definite policy with respect to the salaries of our teachers, outlined and understood by all, I would suggest that the Committee consider the advisability of adopting a schedule of salaries for the principals throughout the city and for the high school teachers. It would be well at the same time, I think, to consider the possibility of increased salaries for the grade teachers. It may be wise in this connection to outline briefly my own attitude upon the question of teachers' salaries. In my judgment the highest interests of any community demand (1) that the teachers whom it employs shall be thoroughly equipped educationally; (2) that they

shall possess more than the average degree of executive power; (3) that they shall have a personality that will win the co-operation of pupils and parents; (4) that they shall manifest an enthusiasm for their work which will arouse pupils to diligent and vigorous application to school tasks; (5) that they shall be individuals of the highest type of character with the power to inspire nobility of thought and action in pupils.

If the foregoing assumptions be true,—and they would seem to commend themselves to any thoughtful person,—it follows that the salaries paid teachers should be sufficiently liberal to attract to the service of the schools those who rank among the ablest and best. While teachers as a whole will compare favorably with the members of other professions, both in point of character and ability, nevertheless, as the opportunities and financial rewards in other lines of human effort become greater, young people, especially young men of the highest promise, are becoming less inclined to fit themselves for teaching as a life work. It is further to be noted that those who have demonstrated their capacity for leadership in the teaching profession are increasingly dropping out from the ranks to fill more remunerative positions in private enterprises.

The fact that so many able men and women enter and remain in the teaching profession under prevailing salary conditions is to be attributed largely to the fact that the dignified and responsible character of the teacher's work presents to many a stronger appeal than larger financial returns in other fields of effort.

It is hardly to be expected that all teachers shall be paid the equivalent of their worth to a community, for the work of a first-class teacher is too far-reaching in its beneficial effects to have its value accurately estimated. However, it is possible and desirable, in order that communities may secure choice talent for the important work of teaching the young, to place the salaries of teachers, as a class, at a figure that will compare favorably with the remuneration in other lines of work open to educated and able men and women. Until this is done communities must be content

with a partial realization of the results possible from school instruction.

Passing from the consideration of this question in the abstract to its concrete phase as affecting Melrose, it seems to me that we have come to the time when the committee may wisely adopt a more liberal policy in the matter of salaries than it has seemed possible to adopt hitherto in view of steadily increasing school expenditures made necessary (1) by the rapid growth during the past few years in the membership of our schools in the higher and more expensive grades, and (2) by the efforts put forth during this period to bring our schools to the point of desired efficiency. I am not moved to this conclusion simply by the need of teachers for more adequate remuneration, although such need manifestly exists in many cases as a matter of justice, but, principally, because I firmly believe that our highest community interests demand such action.

During the past year, in addition to other losses, five teachers who may be rated fairly among the best that we have had in our corps have resigned to accept positions in neighboring cities at increased salaries, and three others whom we have been fortunate enough to retain thus far have been offered increased salaries to go elsewhere.

During the previous year we lost seven such teachers to places paying higher salaries. I have no disposition to advocate anything that is not in the interest of true economy, but to equip and maintain costly school plants, to provide heating and janitor service, to furnish pupils with text-books and supplies of a general nature and then to pay salaries that render it impossible to keep the teaching corps at the point of efficiency necessary to secure from such investment adequate returns for the community in educational results, does not seem a good business proposition.

It is not thus that men look at matters in the management of successful business enterprises.

The loss of a first class teacher inevitably weakens the teaching force and thereby reduces the efficiency of the schools. It matters not that we may be fortunate enough — and too frequently we are not — to replace such a teacher

by another of equal ability and strength of character, for the new teacher, at best, cannot *immediately* do as well as the one whom she succeeds. It takes time for a teacher to adjust herself to new conditions sufficiently to produce the best results that are possible for her, and meanwhile school interests suffer.

It is not to be expected that we can completely protect ourselves from the loss of our best teachers, for there will always remain the possibility that a teacher may be offered a salary elsewhere that we cannot hope to duplicate, and, further, teachers for various other reasons leave the profession. Nevertheless it is possible with fairness to our tax payers, I think, to reduce the chances of such loss so far as salary reasons are involved, for, as is shown in another part of this report, the average of the salaries paid teachers in Melrose, at present, is below the average of the salaries for any city in the county. The general plan that I have to offer in this connection, if adopted, would not result in any large immediate increase in our salary expenditures. As was suggested in my report for 1899 and again in 1901, I believe in view of the present condition of our city's finances that it is wise not to change the present uniform maximum salary of \$550 to which efficient teachers may steadily advance, but to have it clearly understood that, whenever by the excellence of her work and by her professional earnestness a teacher shall seem worthy of special recognition, the Committee stands ready to advance her salary to a point more nearly corresponding to the usefulness of a first-class teacher to the City. It will be seen from what has been said that I stand for the recognition of the principle of different degrees of efficiency in service. It may be thought that difficulties of administration are likely to arise from the adoption of such a plan. Any discussion of this point is uncalled for at present. However, if it should seem wise to the Committee to consider the plan favorably, I shall be pleased to offer more definite suggestion whenever desired.

II. *Substitute Teachers:* In my report for 1899, attention was called to the educational loss sustained by the fact

that, when teachers were absent for any cause, we were obliged in most cases to employ as substitutes persons who were not regularly engaged in teaching. In that connection I advised the employment of "one or two good teachers at a regular salary, who would be available at any time to fill vacancies that might arise."

Since the conditions under which we secure substitutes at present are the same as they were at that time, and since my opinion regarding the matter remains unchanged, I submit again what I then said in support of that recommendation :

"Such a plan would prove advantageous not only because it would provide some one to whom we could turn in any emergency, but because it would provide us with substitutes whom we could put in charge of a room with the assurance that the work would not seriously suffer in the absence of the regular teacher. I imply no criticism of those substitute teachers whom we have employed from time to time in the past; they have done as well as we could reasonably expect under the circumstances. It is not possible for one who does not make a business of teaching and who, in many instances, has had little, if any, experience to go into a room upon a few hours' notice (frequently less) and do much more than 'keep school.' Under our present plan, I have employed substitutes when it was evident to me that the only gain thereby was in keeping pupils off the street."

Again I recommend that one or two teachers be employed regularly to be used as substitutes when needed and to be utilized at other times in giving assistance in the different schools to individual pupils who from lack of aptitude for their work or from loss of time through sickness may need help beyond what the regular teacher has opportunity to give. In my judgment it is wise to make a beginning in this direction at once, for to employ one such teacher would cost very little more than it costs at present for the substitutes whom we employ irregularly, while the value of the service rendered by a regular substitute would be much greater.

III. *Medical Inspection:* At various times during the past three years, I have found it necessary to approach the

Board of Health and our local physicians for advice and assistance regarding matters affecting the physical welfare not only of individual pupils but also of whole schools. The benefit that has come to the schools from the co-operation of our medical friends at such times has served to strengthen my previous belief in the need of some form of medical inspection in the schools.

In a comparatively recent address, President Eliot of Harvard made the following deliberate statements bearing upon this point:

"Next to this improvement in school houses and school yards comes improvement in the sanitary control and management of schools. This control requires the service of skilful physicians and such a physician should be officially connected with every large school. It should be his duty to watch for contagious diseases, to prevent the too early return to school of children who have suffered from such diseases, to take thought for the eyes of the children, lest they be injured in reading or writing by bad postures or bad light, to advise concerning the rectification of remediable bodily defects in any of the children under his supervision, to give advice to the homes about the diet and sleep of children whose nutrition is visibly defective, and, in short, to be the protector, counselor and friend of the children and their parents with regard to health, normal growth and the preservation of all the senses in good condition. Such medical supervision of school children would be costly, but it would be the most rewarding school expenditure that a community could make, even from the industrial or commercial point of view, since nothing impairs the well-being and productiveness of a community so much as sickness and premature disability or death. As is an individual, so in a nation, health and strength are the foundations of productiveness and prosperity."

On account of the expenditure involved we may hardly expect at once to realize President Eliot's ideal in this respect. However, it is desirable and possible, I think, to move in that direction. Therefore I recommend that the committee take under consideration the advisability of

adopting some plan for regular medical inspection in our schools.

IV. *Manual Training*: In this connection, I desire to suggest that the committee take under consideration the desirability and possibility of making manual training part of the work in Melrose. I firmly believe that manual training should be part of any well-ordered school system. While this is not the time for extended argument in support of that belief, it may be well to state briefly a few reasons therefor.

(1). Manual training is necessary to the best intellectual development.

The designation "manual training" is misleading. There is no such thing as proper manual training apart from intellectual training. Every intelligent manual expression is preceded by an intellectual act, and every worthy intellectual act is mind-developing.

Superintendent Parlin of the Quincy (Mass.) Schools has well said in discussing this subject, "That knowledge is most definite which has worked its way into the mind through the activity of the senses and the muscles, and that thought is clearest which has been embodied by the thinker in some material expression."

Dr. Dewey, director of the School of Education connected with Chicago University, has said with reference to the bearing of motor or manual training upon intellectual development: "The old emphasis upon the strictly intellectual elements, sensation and ideas, has given way to the recognition that a motor factor is so closely bound up with the entire mental development that the latter cannot be intelligently discussed apart from the former."

(2). Again manual training has a certain civic or social value. This has been recognized in Massachusetts by the following statute of the General Court in 1898: "Every town and city of twenty thousand or more inhabitants *shall* maintain as part of both its elementary and its high school system the teaching of manual training."

A purely book training is hardly the best type of training for young people today. Civic and social conditions have vastly changed in modern times. Education today is uni-

versal and for active life. Success in these days in nearly any line depends largely upon the degree of directive intelligence or executive power that an individual has developed. Motor training assists such development. Therefore motor training should be recognized in the schools, for, whatever fine-spun theories one may have regarding education in the abstract, the chief duty of the public school is to give boys and girls the training that is fundamental to success in the practical affairs of life.

Manual training is further helpful as a social force, because it tends to develop a greater degree of respect for the man who toils with his hands and for the product of that toil. It is quite conceivable that this higher and more general respect for the dignity of manual toil may be a helpful factor in bringing about a better condition of social existence for the masses.

(3). Again, manual training is a moral force in education. One who has observed the effects of such training upon boys and girls in public schools or has studied the beneficial results from industrial education in connection with institutions like those at Carlisle, Tuskegee, or Elmira, will readily agree with this statement.

(4). Again, manual training is valuable because it tends to prevent misfits and failures in life by giving boys and girls the opportunity, which our present school systems too frequently do not, to discover their tastes and aptitudes in manual lines.

CHANGES IN THE SCHOOL COMMITTEE.

In December Dr. A. F. Amadon closed his term of three years upon the school committee. It had been hoped that the schools might profit by his continuation upon the committee, but removal from the city forced him to decline further service.

I desire to record my high appreciation of the worth of Dr. Amadon both as a man and as a fellow worker. The ideals that he held in his work were high and his efforts for the upbuilding of our schools were persistent and intelligent. His departure was a distinct loss to the school interests of the city.

At its last meeting in December the School Committee adopted the following resolution: "Resolved,—That this Board spread upon its records its appreciation of the untiring interest in the work of the School Committee shown by our Secretary, Dr. A. F. Amadon, during his term of service. He has given unsparingly of his time and energy with the greatest profit to our schools, and it is with deepest regret that we see him leave the work for which he is so admirably equipped."

In the election of John E. Marshall as Dr. Amadon's successor the city has secured a public servant who commands the respect of all for his sound judgment and prudent regard for the interests of the city.

CONCLUSION.

Whatever a Superintendent of Schools may attempt in the development of a school system, the accomplishment that results depends largely upon the degree of cooperation that he secures from the various forces with which he has to deal, viz., the teachers, the Committee and the public. If, as I believe, the schools of Melrose are yielding adequate returns for the appropriations granted them, this result must be attributed in large degree to the harmonious relations existing in the school corps, to the expressed confidence of the Committee in its executive and to the willingness of the community in general to assist the legally constituted school authorities in strengthening the educational interests of the city whenever it has been made evident that aid could be rendered. Our local papers and women's clubs, as well as individual citizens, have repeatedly given illustrations of this willingness to aid, and I take pleasure in publicly acknowledging the assistance of these outside forces as well as the hearty support of the Committee and teachers with whom it has been my privilege to work.

Respectfully submitted,

F. H. NICKERSON,

Superintendent of Schools.

March 2, 1903.

APPENDIX.

a PROGRAM OF HIGH SCHOOL GRADUATION.

b. FRANKLIN FRATERNITY PRIZES.

c MELROSE WOMAN'S CLUB HONORS.

d PUPILS PROMOTED FROM THE NINTH GRADE
TO THE HIGH SCHOOL, JUNE, 1902.

c. ORGANIZATION OF THE SCHOOL STAFF.

MELROSE HIGH SCHOOL.

GRADUATING EXERCISES.

CLASS OF 1902.

CITY HALL, EVENING OF JUNE TWENTY-FIFTH AT EIGHT O'CLOCK.

PROGRAM.

INVOCATION,

REV. THOMAS J. HORNER.

LIFT THINE EYES, *Mendelssohn*
GLEE CLUB.

ADDRESS, "Mental Health,"

REV. EVERETT D. BURR.

BE GLAD, LASS AND LAD, *F. F. Bullard*
GLEE CLUB.

AWARD OF PRIZES GIVEN BY THE FRANKLIN FLATERNITY.

HUNTING SONG, *McDonald*
GLEE CLUB.

PRESENTATION OF DIPLOMAS,

HIS HONOR, MAYOR JOHN LARRABEE,

By Request of the Chairman of the School Committee.

O, ROSE SO SWEET, *Hermes*
GLEE CLUB.

CLASS OF 1902.

“εἰς τὸ Πρόσθεν”

Andrews, Harold Bass
 Barrett, Eunice Emily
 Bosson, Jeannette Marion
 Bowden, Emma Bartol
 Bryant, Laura Felice
 Clark, Julius Vennard
 Coffin, Lee Kemp
 Cunningham, John Henry
 Dill, Jessie Gertrude
 Ellison, Alice Mary
 Ellison, Edith Farnum
 Hindon, William Alonzo
 Hopkins, Cora Evelyn
 Howard, James Mitchell
 Kennedy, Walter Gardner
 Kitching, Lillian Elise
 Leach, Ever Mabel
 Lord, Forrest Wells
 Lyall, Irene May
 MacDonald, Christine
 Marsh, Arthur Brigham

Maynard, Edith Gertrude
 Messenger, Winthrop Norton
 Peirce, Wm. Henry Hathaway
 Pennell, Alcot Johnson
 Reed, Ralph Omer
 Riley, Nellie Winifred
 Sawyer, Henry Bray
 Spinney, Samuel Rogers
 Spurr, Aimée Elizabeth
 Spurr, Fred Yerxa
 Sterling, Mary Banks
 Thomas, Flora Elizabeth
 Townsend, William Woodman
 Tucker, Louis Sydney
 Wardwell, Mary Abbie
 Whalen, Arthur Frank
 White, Edna Eliza
 Whitman, Harold Allen
 Woodman, Louise Isabel
 Woodward, Ernest
 Worthen, Alice Gale

CLASS HONORS.

Emma Bartol Bowden

Louise Isabel Woodman

HONOR LIST.

CLASS OF 1902.

Cora E. Hopkins
 Aimée E. Spurr

Arthur B. Marsh
 Harold A. Whitman

Alice G. Worthen

CLASS OF 1903.

Stella M. Durrell
 Marguerite E. Hill

Martha T. Foster
 Lillian Holden

Mary H. Slade

CLASS OF 1904.

Florence M. Child
Julius H. Serra

Ethel G. Gould
Marion H. Stafford

Caroline G. Whitney

CLASS OF 1905.

Florence E. Copeland
Augustus B. Merry

Elizabeth M. Grundy
Annie B. Murray

Ester B. O'Brien

FRANKLIN FRATERNITY PRIZES.

GEOMETRY (open to all).

Arthur B. Marsh

ALGEBRA (open to all).

John H. Cunningham

GEOMETRY (third class).

Marion H. Stafford

ALGEBRA (fourth class).

Annie B. Murray

MELROSE WOMAN'S CLUB HONORS.

Cora Evelyn Hopkins

Alice Gale Worthen

PUPILS PROMOTED FROM THE NINTH GRADE TO THE HIGH
SCHOOL, JUNE, 1902.

*Bertha May Allis
*Arthur Frank Amadon
*Ernestine Frances Atwood
Percy Irving Axford
*Ruth Atwood Baker
Estella Elizabeth Bellyea
John Lawson Bishop
*Elizabeth Black
*Sue Fitz Blanchard
*George Farris Boutwell
*Harry Earle Bowser
*Isabella Boyd
*Charles Breen
*Marion Eunice Brennan
*Hope Orcutt Brittain
*Hope Catherine Brown
*Katherine Warner Brown
*Timothy Francis Brown
*Harriet Mildred Bucknam
*Marjorie Alice Burns
*Nora Katherine Callahan
*Helen Carter
*Margaret P. Carter
*Edward F. Cassell
*Charles Henderson Chandler
*Helen Louise Childs
*Nina Florence Childs
*Ralph Melcher Churchill
Eva Lillian Chaffin
*John Hubert Clark
James Gilman Coldwell
Harold Allen Cole
*Henry Cheever Comey
Maud Ethel Cook
*Sarah Agnes Coye
Charles C. Cram
*Minnie G. Crocker
*Annie Louise Cunningham
*Don Harold Curtis
*Avis Mildred Curville
Charles James Dailey
*Gladys Lincoln Damon

*Daniel Joseph Doherty
*George Ambrose Doherty
*Carl Plumer Dow
*Chauncey Thomas Drew
*Ella T. B. Duff
*Charles Leonard Ebert
*William Frederick Ebert
*Mildred P. Etter
Mabel Adelaide Farnum
*Marguerite L. Faust
Elizabeth Fitch
*Mary Agnes Flatley
*Laura Alba Ford
*Julia Kent Foster
*Alice Small Gerrish
*Helen Warrenton Gerrish
*Gordon Ingraham Gerry
*Marion Broadstreet Gould
*Gertrude Sargent Gower
*Shirley Grant
*Carrie Avis Green
*Agnes Gertrude Gunning
Edwin Thomas Hardiman
*Arthur Chester Haven
*Ruth Hazard
*Mark Leslie Hersey
*Alden Willard Hills
*Herbert Waldo Hines
*Jesse Holbrook Holt
*Hattie Lynk Howie
Elsie Berkeley McC. Howitt
*Alice Hubbard
Frank Douglas Hunter
*Wray Malory Hyde
*Harold Bosworth Jelleson
*Gertrude Clare Keefe
Thomas Edwin Kimball
*Chester Lawson
Wilbert Lay
*Helen Meredith Leavitt
Winnie Lock
*Emily D. Lord

- *Hazel Loring
- *Cummings Lincoln Lothrop
- *Ralph Albion Loveland
- *Gertrude Mary Lucey
- *Mary Irene Lynch
- *Lulu Lynde
- Marguerite H. Maclachlan
- *Lillian May Matthews
- Albert Francis McDonald
- *Frederick H. McDonald
- Mary Alice McGregor
- *Margaret Ann McLean
- *Louis Keegan McNally
- *Richard Stanley Merrill
- *Pauline Messenger
- *Hazel Miller
- *Winthrop Washington Moore
- *Charles William Morrill
- *Vira Alice Morrill
- *Ira Mosher
- *Raymond Clarence Munn
- *Helen Whiton Munyan
- *Atkins Nickerson
- *Ethel Louise Norris
- Agnes Everina Pearson
- *Alma Louise Pendleton
- *Justin Perkins
- *Sophia Rhea Perkins
- *Isabella Phillips
- *LeRoy Ruberg Cluff Pratt
- *Blanch Harriet Pray
- *Austina Bryant Raymond
- *Elizabeth Anna Reilly
- *Ethel Marion Reynolds
- *Addie M. Ripley
- *Eva Alice Robbins
- *Arthur Richards Rowe
- *Clara Winifred Russell
- *Ethel Amelia Sargent
- *James Francis Scanlan
- *Harry F. Shannon
- *Willis Peter Shumway
- *Ethel Whitcomb Simpson
- *Louise Mellie Slayton
- *Ralph Joseph Smith
- *Maud Lamb Snow
- Maud Amelia Stanford
- *Marion Winchester Stevens
- *Sara Josephine Stone
- *Zelma Irene Stone
- *Milton Clifford Storey
- *Evelyn May Taylor
- *Ralph Lane Thompson
- *Edna Tibbets
- *Mildred Bryant Towle
- *Benjamin R. Vaughan
- *Eucebia Lillie Verge
- *Walter Cleveland Verge
- *George Edmund Warner
- *Addie Frances Webster
- *Marguerite Webster
- *Clare Stearns Wellman
- *Ruth Draper Wentworth
- *Sara von Helena Wheaton
- *Fortis Wheeler
- *Mary Agnes White
- *Alfred Gray Williams
- *Harold Luther Wood.

*Entered the High School in September. 88 per cent.

ORGANIZATION OF THE SCHOOL STAFF.

December 31, 1902.

Superintendent of Schools.

FRED H. NICKERSON, 492 Lebanon Street.

Superintendent's Clerk.

HELEN L. BURR, 119 Wyoming Avenue.

CORPS OF TEACHERS.

HIGH SCHOOL.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
William C. Whiting..Principal		Dartmouth College.....	1899
Alonzo G. Whitman..Prin. Emeritus..		Bowdoin College.....	1874
George A. Hutchins..Sub-Master....		Bates College.....	1901
Kenneth Beal.....English Dept..		Dartmouth College.....	1902
Hugh G. Greene.....Com'l Dept....		Albany Business College.....	1898
Annie C. Merritt....Modern Lang.		Hanover (Germany) Normal Dept.....	School, Cours Sevigne, Paris.1896
Margaret McGill....History Dept..		Mt. Holyoke College.....	1900
Adelma A. Ballou....Latin		Dean Academy.....	1887
Harriet C. Fairbanks..Algebra, Latin.		Natick High School.....	1880
Hattie G. Ricker....French		Lapham Institute.....	1884
Jennette Moulton....Greek.....		Wellesley College.....	1899
Helen M. Armstrong..English, French		Boston University	1900
Sara Fisher.....His. Stenog....		Boston University... ..	1902

FRANKLIN SCHOOL, COR. FRANKLIN AND MAIN STREETS.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
Archer C. Bowen.....	Principal, IX..	Bridgewater Normal School..	1901
Mary J. George.....	Prin. Asst.....	Wakefield, Mass. High School	1880
Sylvia Williams.....	VIII	North Adams Normal School.	1902
Louise G. White.....	VII	Salem Normal School.....	1895
Alice C. Day.....	VII & VI.....	Salem Normal School.....	1900
Edith Maxwell.....	VI.....	Farmington (Me.) Nor. School	1902
Nora P. Nason.....	V.....	Gorham (Me.) Normal School.	1899
Alma J. Guptill.....	V.....	Girl's High School, Boston...	1884
Minnie F. C. Snow...IV.....		Orono (Me) High School.....	1892

WASHINGTON SCHOOL, COR. LEBANON AND LYNDE STS.

William A. Reed.....	Principle, IX..	Cook County Normal School.	1901
Harriet H. Dowe.....	Prin. Asst.....	Mt. Holyoke College..	1894
Grace E. Chamberlain	VIII.....	Gorham (Me) Normal School.	1901
Lavinia W. Smallwood	VI.....	Bridgewater Normal School...	1899
Etta J. Call.....	V	Ellsworth(Kan) Normal Inst..	1890
Mary L. Loring.....	IV & III.....	Salem Normal School.....	1897
Hattie D. Field.....	II.....	Boston Normal School.....	1891
Mary A. Bailey.....	I.....	Miss Wheelock's Kindergarten Training Class.....	1896
Bertha W. Leighton..I		Miss Wheelock's Kindergarten Training Class.....	1899

LINCOLN SCHOOL, WYOMING AVENUE.

Augustus O. Burke..	Principal, IX.	Bridgewater Normal School..	1898
Lydia Mendum.....	Prin. Asst.....	Salem Normal School.....	1874
Edith Brown.....	Prin. Asst.....	Smith College.....	1902
Ethel E. Thomas.....	VII	Bridgewater Normal School	1901
Mary S. Haley.....	VI.	Wellesley College, Framing- ham Normal School.....	1901
Mary R. Clarke.....	V.....	Franklin Academy.....	1894
Harriet A. Saunders.	IV & III	Malden High School.....	1898
Jennette A. Doane...II.....		Templeton High School.....	1895
Grace C. Albee.....	I.....	Wellesley College.....	1898
Grace A. Lynde.....	I	Miss Page's Kindergarten Training Class.....	1897

D. W. GOOCH SCHOOL, COR. FOSTER AND FLORENCE STREETS.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
Eva R. Crane.....	Prin. VIII.....	Coburn Classical Institute.....	1899
Helen B. Stevens....	Prin. Asst....	Smith College.....	1902
Harriet Benson.....	VII	Gorham (Me.) Normal School..	1902
Alice H. Long.....	VI.....	Boston Normal School.....	1877
Lois M. Holmes.....	V.....	Melrose High School.....	1896
Mary E. Nye.....	IV.....	Bridgewater Normal School..	1885
Ethel L. Clark.....	III.....	Salem Normal School.....	1900
Amelia F. Trowbridge..	II.....	Melrose High School.....	1889
Annie P. Long.....	I.....	Melrose High School.....	1894
Maud E. Brown.....	I.....	Miss Garland's Kindergarten Training Class.....	1900

HORACE MANN SCHOOL, COR. GROVE AND MYRTLE STS.

Alice M. Swett.....	Prin. VIII.....	Plymouth (N. H.) Nor. School	1882
Mary S. Wentworth..	Prin. Asst....	Wakefield (N. H.) Academy..	1896
Aubigne Lermond...	VII	Bridgewater Normal School..	1902
A. Louise McCormick..	VI	Wheaton Seminary.....	1891
Henrietta Cowan.....	V.....	R. I. Normal School.....	1902
Anna W. Atkins.....	IV.....	Provincetown High School..	1897
Nellie C. Dempsey...	III.....	Salem Normal School.....	1891
A. Arline Merrill....	II	Melrose High School.....	1894
Annie G. Balch.....	I.....	Wakefield High School.....	1900
Lillian M. Tufts.....	I	Miss Symonds' Kindergarten Training Class.....	1901

MARY A. LIVERMORE SCHOOL, MAIN STREET.

Annie M. C. Washburn	Prin. VIII.....	Wellesley College.....	1900
Jane E. Warfield....	Prin. Asst....	Wellesley College.....	1902
Persis M. Sibley.....	VII.....	Gorham (Me.) Normal School	1902
Lucy E. Shute.....	VI	Pinkerton Academy.....	1895
Katharine V. Rowe...	V.....	Boston Normal School.....	1901

WARREN SCHOOL, WARREN STREET.

Alice J. Coffin.....	Prin. IV.....	Gorham (Me.) Normal School	1895
Mary E. Tupper.....	III.....	Framingham Normal School..	1892
Ruth M. Knowles....	II.. ..	Mt. Holyoke College.....	1894
Margaret E. Grady...	I.....	Salem Normal School.....	1896
Mabel Price.....	I.....	Miss Symonds' Kindergarten Training Class.....	1897

WINTHROP SCHOOL, COR. ELEVENTH AND FIRST STREETS.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
Edith S. Dermot.....	Prin., IV & III	Framingham Normal School..	1896
Dora Whittridge.....	Assistant.....	Mayville (N. Y.) High School..	1902
Annie Dinnie.....	II	Quincy Training School.....	1900
Mary E. Deans.....	I	Miss Wheelock's Kindergarten Training School.....	1902
Helena M. Hocking...I		Miss Wheelock's Kindergarten Training Class.....	1901

SEWALL SCHOOL, UPHAM STREET.

Martha A. Briggs....	Prin. V & IV..	Edw. Little High School....	1898
Jane E. Warfield....	Assistant.....	Wellesley College.....	1902
Lena D. Marshall....	III	Salem Normal School.....	1900
Mary A. Chisholm ...	II	Salem Normal School.....	1896
Geneva B. Davidson..I		Miss Page's Kindergarten Training Class.....	1899
Emma C. French....I.		Miss Symonds' Kindergarten Training Class.....	1902

WHITTIER SCHOOL, COR. FRANKLIN AND PRATT STREETS.

Archer C. Bowen....	Principal.....	Bridgewater Normal School..	1901
Isabelle L. Atwood..II'		Robinson Seminary, Haverhill Training School.....	1892
Gertrude B. Stewart. II		Melrose High School.....	1894
Frances B. Brown....I		Exeter N. H. Training School..	1899
Marion P. Goodwin..I		Miss Symonds' Kindergarten Training Class.....	1901

CONVERSE SCHOOL, FELLOWS.

Anastatia G. Riley...I, II, III.....	Salem Normal School.....	1900
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RIPLEY SCHOOL, SWAIN'S POND AVENUE.

Mabel G. Gilbride....I, II, III.....	Quincy Training School.....	1900
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SUPERVISORS.

Alvin C. Saunders....	Music.....	1901
Willis S. Carter.....	Drawing	1891

JANITORS.

NAME.	SCHOOL.	RESIDENCE.
George A. Beckford..	Ripley.	Off Swain's Pond Avenue
Charles J. Critchett..	Livermore & Sewall...	80 Whitman avenue
James Fahey	Warren & Whittier...	62 School Street
George E. Fogg.....	High	102 E. Foster Street
John Hitchins.....	Winthrop.....	Waitt Street
Samuel Lear.....	Franklin.....	931 Main Street
Archie McIlwraith...	Lincoln.....	5 Allen Place
Henry S. Payne.....	Washington.....	28 Albion Street
Thomas Ray.....	Converse	52 Main Street
John Thyng.....	Gooch & Mann.....	43 Winthrop Street

ENGINEER IN HIGH SCHOOL.

Charles Brown.....	50 Porter Street
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Third Annual Report

OF THE

Engineer and Superintendent

OF THE

PUBLIC WORKS DEPARTMENT,

CITY OF MELROSE, MASS.

FROM FEBRUARY 1, 1902 TO JANUARY 31, 1903.

W. DABNEY HUNTER,
Engineer and Superintendent Public Works.

MELROSE:
THE A. W. DUNTON PRINTING CO.
1903.

ORGANIZATION.

1902.

HON. JOHN LARRABEE,
Mayor.

W. DABNEY HUNTER,
Engineer and Superintendent.

EMMA L. LEIGHTON,
Stenographer.

WILLIAM H. MARTIN
Book-keeper.

WILLIAM F. HUNT,
Assistant in charge of Engineering Division.

JAMES MARSHALL,
Assistant in charge of Highway Division.

JAMES MCTIERNAN,
Assistant in charge of Water Division.

BARTLEY MALONEY,
Assistant in charge of Sewer Division.

To His Honor the Mayor, Sidney H. Buttrick :

DEAR SIR :—I have the honor to submit to you the Third Annual Report of the Public Works Department of the City of Melrose, for the fiscal year ending January 31, 1903.

Like all reports of this nature, where there is no new work or a departure from the regular routine, there will be a general sameness to former reports; but in many instances I shall endeavor to condense it as much as possible, and if matters are not treated as much in detail as previously, it is not from a desire to hide anything but rather to economize in printing.

PUBLIC WORKS OFFICE.

The work of this office has been much the same as in previous years, except the natural increase due to the growth of the city and the various systems embraced by the department.

Summary of work done :

Permits to open and occupy public streets, . . .	131
“ “ move buildings through public streets, . . .	5
Orders of the Board of Aldermen attended to or reported on,	72
Contracts written and made :—water pipe and specials, curbstone, concrete, street watering, collection of ashes, street lighting, delivery of water pipe and repair of City Hall basement,	8
Private sewer estimates made,	62
Sidewalk “ “	41
Water estimates made, laying, cleaning and repairing,	85
Street watering accounts assessed and certified to the Board of Assessors,	1404
Water bills made out,	3800
Certificates of refunds made,	97
Number of collections made,	580
“ “ rebates paid,	168

STATEMENT OF APPROPRIATIONS AND EXPENDITURES.

Appropriations :

Clerk and stenographer, . . .	\$500 00	
Printing, stationery, etc., . . .	200 00	
Board of horse, etc., . . .	300 00	
Telephone service, . . .	75 00	
	<hr/>	\$1,075.00

Expended :

Clerk and stenographer, . . .	\$499 50	
Printing, stationery and stamps, . . .	\$199 68	
Board of horse, etc., . . .	300 00	
Telephone service, . . .	52 07	
	<hr/>	\$1,051 25

Balance in Treasury :

Clerk and stenographer, . . .	50	
Printing, stationery, etc., . . .	32	
Telephone service, . . .	22 93	
	<hr/>	23 75
		<hr/>
		\$1,075 00

WATER DIVISION.

This is the 30th Annual Report of the water department ; the first 27 were made by the Board of Water Commissioners, and the last 3 by the Engineer and Superintendent of Public Works, and were embodied in, and made a part of his report of the Public Works Department.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Appropriation, Maintenance and Reconstruction,	\$25,000 00
Bond issue, Order No. 1,868, Board of Aldermen,	10,000 00
Collections paid to Treasurer, by W. D. Hunter,	1,650 80
Transfers received from other divisions for stock,	25 70
Stock on hand as per balance reported Feb. 1, 1902,	3,641 55
	<hr/>
Amount carried forward,	\$40,318 05

Amount brought forward,	\$40,318 05
Expended:	
For relay, (see Table No. 1)	\$15,178 94
“ construction, (see Table No. 2)	9,302 29
For maintenance, gen'l and invoices, (see Table No. 3)	3,591 61
For maintenance services, (see Table No. 3)	1,334 01
For maintenance, inside services and charges, (see Table No. 3)	1,292 86
For maintenance, main line and hydrants, (see Table No. 3)	1,133 77
Stock balance Feb. 1, 1903, (see Table No. 4)	\$2,111 27
Balance in Treasury, Feb. 1, 1903, maintenance account,	5,675 59
Balance in Treasury, Feb. 1, 1903, construction account,	697 71
	8,484 57

\$40,318 05 \$40,318 05

NOTE: — For detail of expenditures, see tables referred to.

FINANCIAL STATEMENT.

For the fiscal year ending January 31, 1903, not including the 1903 rates collected in January, 1903, (\$5,183.00).

DR.	
To cash on hand Feb. 1, 1902, summons,	\$2 60
“ “ “ “ “ “ “ water rates,	26 32
To 1901 summons collected in 1902,	60
“ 1901 water rates collected in 1902,	778 83
	\$808 35
To 1902 summons collected in 1902,	\$78 40
“ 1902 water rates collected in 1902,	49,740 63
Amount carried forward,	\$50,627 38

Amount brought forward,	\$50,627 38
To sundry collections made by W. D. Hunter :	
New services, (47)	\$481 42
Services renewed, (15)	155 46
Services cleaned, (66)	225 98
Thawing services, (5)	34 95
Repairing services, (36)	103 50
Sealing fixtures, (5)	5 81
Sale of stock,	35 93
On and off water, (137)	137 00
" " " " for non payment, (20)	40 00
Junk,	122 20
Second-hand pump, not included in stock account,	300 00
Sundries,	8 55
	<hr/>
	1,650 80
To collected by Treasurer from other divisions of the Public Works Department,	25 70
To collected by Treasurer from Commonwealth Massachusetts for water sold as provided by Section 3 of Chap. 392 of the Acts of 1898,	232 46
	<hr/>
Total,	\$52,536 34

CR.

By cash paid Treasurer (J. W. Murray) sum- mons 1901,	\$ 60	
By cash paid Treasurer (J. W. Murray) water rates 1901,	715 60	
By cash refunded sundry persons for 1901,	92 15	
	<hr/>	\$808. 35
Amounts carried forward	\$808 35	\$52,536 34

Amounts brought forward, . . .	\$808 35	\$52,536 34
By cash paid Treasurer (J. W. Murray) sum- mons 1902, . . .	\$78.40	
By cash paid Treasurer (J. W. Murray) water rates 1902,	49,252 90	
By cash refunded sundry persons for 1902, . . .	437 69	
	<u>49,768 99</u>	
By cash paid Treasurer (W. D. Hun- ter) sundries 1902,	1,650 80	
By amount collected by Treasurer from other divisions of the Public Works Department,	25 70	
By amount collected by Treasurer from Commonwealth of Massachu- setts for water sold as provided by Sect. 3, Chap. 392 of the Acts of 1898,	232 46	
	<u>52,486 30</u>	
By cash on hand Feb. 1, 1903, (J. W. Murray)		\$50 04

STATEMENT FOR SINKING FUND.

DR.

To stock balance as per last report, . . .	\$3,641 55
“ total collections for year ending January 31, 1903,	\$52,507 42
Less refunds paid sundry persons, . . .	529 84
	<u>\$55,619 13</u>

CR.

By assessments paid Commonwealth of Massachusetts :	
Sinking Fund,	\$4,398 83
Interest,	7,038 98
Cost of maintenance, . . .	2,997 12
	<u>\$14,434 93</u>
Amounts carried forward, . . .	\$55,619 13

Amounts brought forward, . . .	\$14,434 93	\$55,619 13
By amount transferred to Engineering, . . .	1,300 00	
“ interest paid,	10,020 00	
“ cost of relaying pipes,	15,178 94	
“ “ “ maintenance,	7,352 25	
“ stock balance,	2,111 27	50,397 39
Surplus,		\$5,221 74

NOTE:—To check with Auditor's balance (\$10,354.70), add cash on hand, J. W. Murray, \$50.04, and subtract January receipts \$5,183.00.

COST OF CONSTRUCTION TO JANUARY 31, 1903.

Cost as per report 1901,	\$425,895 51	
“ of services 1902,	503 93	
“ of extensions 1902,	2,119 04	
Improvement to plant 1902,	6,714 90	
“ “ “ 1900, not previously charged,	1,563 89	
Improvement to plant 1901, not previously charged,	2,190 99	
	—————	\$438,988 26

SUMMARY OF FIXTURES AND STATEMENT OF WATER SUPPLIED—February 1, 1903.

	Rated.	Metered.	Public Buildings.	Totals.
Families.....	3,372	90	...	3,462
Boarding Houses.....	2	3	...	5
Stores and Shops.....	132	76	...	208
Faucets.....	9,112	535	138	9,885
Water Closets.....	3,424	239	138	3,801
Bath Tubs.....	2,178	84	3	2,263
Use of Water Closets.....	80	3	...	83
Use of Bath Tubs.....	20	...	...	20
Urinals.....	3	14	23	40
Fountains.....	3	...	7	10
Sill Cocks.....	1,070	18	14	1,102
Horses.....	306	206	8	520
Cows.....	36	3	2	41
Hose.....	1,107	1	14	1,122
Boilers.....	1	11	20	32
Motors.....	1	4	...	5

NOTE. This includes the fixtures in 108 full houses.

Number of water takers,	3,758
" " Vacancies,	271
" " Fire hydrants,	273
" " Stand pipes (for street sprinkling),	25
" " " " (for cemetery),	12
" " Meters,	95
" " Gates on mains,	403
" " Miles of cement mains,	21.492
" " Miles cast iron mains,	25.583

The purchase of stock was by bids, either advertised for or solicited. Water pipe and specials were purchased of R. D. Wood & Co.; lead and lead pipe of the Chadwick-Boston Lead Co.; valves of Rensselaer Manufacturing Co.; fire hydrants of Chapman Valve Manufacturing Co.; pig lead of the National Lead Co., and jute from Tragle Cordage Co.

CANVASS OF BIDS FOR FURNISHING CAST IRON WATER PIPE AND SPECIALS.
Opened May 31, 1902.

ITEMS.		R. D. Wood & Co., Philadelphia, Pa.		*Chas. Millar & Son Co., Utica, N. Y.		U. S. Cast Iron Pipe & Foundry Co., Philadelphia, Pa.		Fred A. Houdlette & Son, 139 Milk St., Boston, Mass.	
Size.	Quantity in Tons of 2240 lbs.	Price.	Amount.	Price in Net Tons.	Amount.	Price.	Amount.	Price.	Amount.
6"	34.658	\$33.60	\$1,164.51	\$31.20	\$1,211.06	\$32.40	\$1,122.92	\$32.00	\$1,109.06
8"	38.143	33.00	1,258.72	30.20	1,290.14	32.40	1,235.83	32.00	1,220.58
10"	30.013	33.00	990.43	29.20	981.56	31.40	942.41	31.25	937.91
12"	61.664	33.00	2,034.91	29.20	2,016.49	31.40	1,936.25	31.25	1,927.00
16"	58.928	32.50	1,915.16	29.20	1,927.20	31.40	1,850.34	31.25	1,841.49
Tees, etc.,	2.00	60.00	120.00	58.80	131.71	61.60	123.20	61.60	123.20
Specials, ..	6.50	75.00	487.50	58.80	428.06	65.00	422.50	100.80	655.20
Totals	231.906		\$7,971.23		\$7,986.22		\$7,633.45		\$7,814.44

* Informal. Prices given in net tons, and other restrictions imposed.

CANVASS OF BIDS FOR FURNISHING 33 EXTRA HEAVY HIGH PRESSURE WATER GATES, 6" TO 20".

Opened May 31, 1902.

ITEMS.	Chas. Millar & Son Co., Utica, N. Y.		Chas. A. Chaffin & Co., 188 Franklin Street, Boston, Mass.		Chapman Valve M'fg Co., Indian Orchard, Mass.		Coffin Valve Co., Neponset, Mass.		Rensselaer M'fg Co., Troy, N. Y.		Kennedy Valve M'fg Co., 67 Beekman Street, New York, N. Y.		Ludlow Valve M'fg Co., 150 High Street, Boston, Mass.		Norwood Eng'r Co., Florence, Mass.		Thos. Hoey Supply M'fg Co., 401 Atlantic Avenue, Boston, Mass.		
	Size No.	Price.	Amount	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.	Price.	Amount.		
6"	14	\$12.60	\$176.40	\$ 9.00	\$126.00	\$10.93	\$153.02	\$11.25	\$157.50	\$11.75	\$164.50	\$10.35	\$144.90	\$11.95	\$167.30	\$ 9.00	\$126.00	\$ 9.00	\$126.00
8"	11	18.90	207.90	15.00	170.50	17.58	193.38	17.00	187.00	17.50	192.50	15.50	170.50	17.95	197.45	15.00	165.00	15.90	174.90
12"	4	34.20	136.80	29.00	116.00	34.68	138.72	33.00	132.00	33.00	132.00	30.00	120.00	32.50	130.00	31.67	126.68	31.67	126.68
16"	3	64.35	193.05	48.75	146.25	56.53	169.59	61.00	183.00	65.00	195.00	65.00	195.00	61.15	153.45	66.00	198.00	66.00	198.00
20"	1	108.90	108.90	66.00	66.00	93.58	93.58	115.00	115.00	110.00	110.00	98.00	98.00	103.50	103.50	100.00	100.00	100.00	100.00
Totals		\$823.05		\$624.75		\$748.29		\$774.50		\$794.00 or \$673.00		\$728.40 or \$690.00		\$781.70		\$715.68		\$725.58	

CANVASS OF BIDS FOR FURNISHING SIX 6 INCH FIRE
HYDRANTS.

Opened May 31, 1902.

NAME AND ADDRESS.	Price.	Amount.	Remarks.
Chas. Millar & Son Co., Utica, N. Y.....	\$33.00	\$201.00	
R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa.....	34.00	204.00	
Chapman Valve Co., Indian Orchard, Mass.....	31.20	187.20	Full 6" gate. Frost jacket \$3.12 extra.
Coffin Valve M'f'g Co., Boston, Mass.....	24.95	149.70	Standard Compres- sion, bronze mounted.
		168.00	Rubber face gate type.
Rensselaer M'f'g Co., Troy, N. Y.	26.00	156.00	Opening 19½ sq. in.
		or 148.00	Lump sum.
Norwood Engr'g Co., Florence, Mass.....	25.60	153.60	5" hydrant, 6" con.
	38.40	230.40	6" hydrant, 6" or 8" connection.
Thos. Hoey Supply & M'f'g Co., 401 Atlantic Av., Boston, Mass.	31.00	186.00	5" valve.

CANVASS OF BIDS FOR FURNISHING 1,000 LBS. JUTE.

Opened May 31, 1902.

NAME AND ADDRESS.	Price.	Amount.
Tragle Cordage Co., Reading, Pa.....	\$.04	\$40.00
Harold L. Bond & Co., 140 Pearl St., Boston.....	.035	35.00
Perrin, Seamans & Co., 52 Oliver St., Boston.....	.035	35.00
Joshua Baker, 15 India St., Boston.....	.036	36.00

CANVASS OF BIDS FOR FURNISHING TEN TONS PIG LEAD.

Opened May 31, 1902.

NAME AND ADDRESS.	Price.	Amount.
Fitz, Dana & Co., Boston, Mass.....	\$.0443	\$886.00
Chadwick-Boston Lead Co., Boston, Mass.....	.044	880.00
National Lead Co., Boston, Mass.....	.04½	875.00

CANVASS OF BIDS FOR FURNISHING PIG LEAD AND LEAD PIPE.

Opened January 12, 1903.

ITEMS.	Fitz, Dana & Co., 110 North St., Boston, Mass.		Chadwick-Boston Lead Co., 162 Congress St., Boston, Mass.		National Lead Co. 89 State St. Boston, Mass.	
	Price.	Amount.	Price.	Amount.	Price.	Amount.
30,000 lbs. pig lead ..	\$.043	\$1,290.00	\$.0424	\$1,272.00	\$.0424	\$1,272.00
5,000 ft. $\frac{3}{8}$ " pipe, 3 lbs. per ft. = 15,000 lbs. .	.0526	789.00	.0524	786.00	.0524	786.00
2,000 ft. $\frac{5}{8}$ " pipe, 2 $\frac{1}{2}$ lbs. per ft. = 5,000 lbs. .	.0526	263.00	.0524	262.00	.0524	262.00
		\$2,342.00		\$2,320.00		\$2,320.00

Metropolitan District.

The Metropolitan Water and Sewerage Board strongly advocate the use of meters by the municipalities comprising the district. This question should be left to each of the communities to decide for themselves, but, in my judgment, it would be more equitable to charge the cities and towns for that part now apportioned on the basis of population, in proportion to the amount of water consumed by them.

This has been advocated, and certain experiments made in Melrose. The consumption was found to be 91.7 gallons per inhabitant per day; continuing the experiment, it was demonstrated that of the 91.7 gallons used, 68.9 gallons, or 75 per cent. of the entire consumption, was due to leaks, either in mains or services, or both.

A careful examination was made of all mains, especially where they crossed brooks or streams, or where they are located near any catch-basin or drain that would afford means of carrying away the leakage without its appearance on the surface. A house to house canvass was also made, and the condition of all fixtures examined; where leaky ones were found the owner was notified and requested to give the same immediate attention. A record has been kept of all such fixtures, and later the department will examine them, and if not repaired will take more forcible measures to accomplish the same.

Meters.

I can only reiterate what I have said before in regard to meters, viz:—that their adoption would increase the water rates rather than reduce them. This must be evident to all who stop to consider that the adoption and installation of meters for the entire city would require the expenditure of about \$45,000, and their care would increase the annual expense of the department by at least \$3,000, which, with interest on \$45,000 at 4 per cent.—\$1,800—would be an annual increase for maintenance of \$4,800. This increase cost would have to be paid by the consumers, if not by one, then by another.

Rates.

It is claimed that our water rates are high. When compared with the rates of larger cities as Boston, Somerville, Cambridge, Malden, etc., this is true; but if a comparison was made with smaller places like Stoneham and Wakefield, it would be found that they were much less, from which it would seem that the rates are governed by the population; for the expense of maintaining 50 or more miles of mains in the streets is practically the same, whether there are 5,000 or 10,000 consumers, but the revenue would be doubled.

Relaying Pipes.

More work of this nature has been done this year than in any previous year. The pipes in nearly all the streets mentioned in my last report as requiring immediate attention, have been relaid, and also a portion of those included in the "loop line."

The streets in which I recommend the pipes be relaid the coming year are given below, and include about one half of the "loop line," being Vinton, Orris and Warren streets, by the construction of which it is expected to increase the efficiency of the supply to the higher sections of Walton Park, Summit avenue and Ferdinand street.

PIPES RECOMMENDED TO BE RE-LAID.

Item.	LOCATION.			PIPE.						LEAD.			EXCAVATION.				14	Tees, Reducers, Plugs, Etc.			Special Castings.			Hydrants.		Gates.		Contingencies 10%	
				1	2	3	4	5	6	7	8	9	10	11	12	13		15	16	17	18	19	20	21	22	23	24		
				Length in feet.	Diameter in inches.	Standard Weights per Lin. Foot in Lbs.	Tons per 2240 lbs.	Price per ton.	Cost.	Weight per solid joint.	Total weight in lbs.	Cost at 5c. per lb.	Cubic yds. $\frac{3}{4}$ cu. yds. per lin. ft.	Cost at 60c. per yd.	Cubic yards.	Cost at \$4.00		No.	Approx. weight in lbs.	Cost at 2 $\frac{1}{2}$ c. per lb.	No.	Approx. weight in lbs.	Cost at 3 $\frac{1}{2}$ c. per lb.	No.	Cost at \$25.	No.	Cost.		
	From	To																											
1	Warren St.	Franklin St.	Orris.....	630	12"	86	24.20	\$32	\$ 774 40	27 $\frac{1}{4}$	1,444	\$ 72 20	420	\$ 252 00	...	...	\$ 12 10	...	...	...	3	1,350	\$ 47 25	...	...	6	\$ 66 00	\$ 122 39	\$ 1,346 34
2	Vinton St.	Maple St.	Orris.....	3,944	12"	86	151.40	"	4,844 80	27 $\frac{1}{4}$	8,965	447 65	2,312	1,387 20	315	\$1,260 00	75 70	...	...	...	12	5,400	189 00	2	\$50 00	19	312 00	856 64	9,422 99
3	Orris St.	Vinton St.	Warren.....	750	12"	86	28.80	"	921 60	27 $\frac{1}{4}$	1,717	85 85	500	300 00	...	...	14 40	...	...	...	...	...	...	...	...	...	...	132 18	1,454 03
4	Lake Ave.	Emerson St.	Tremont.....	1,200	6"	32	17.14	"	548 48	12 $\frac{3}{4}$	1,275	63 75	800	480 00	...	...	8 57	...	...	...	...	...	...	1	25 00	3	33 00	115 88	1,274 08
5	Youle St.	Vinton St.	Leeds.....	905	8"	48	19.40	"	620 80	18 $\frac{3}{4}$	1,425	71 25	594	356 40	10	40 00	9 70	...	...	...	1	220	7 70	1	25 00	5	68 00	119 89	1,318 74
6	Oakland St.	Vinton St.	Charles.....	1,150	6"	32	16.43	"	525 76	12 $\frac{3}{4}$	1,224	61 20	721	432 60	45	180 00	8 20	1	200	\$ 5 00	1	200	7 00	1	25 00	3	33 00	127 77	1,405 53
7	Porter St.	Main St.	Linden.....	1,525	10"	60	40.84	"	1,306 88	23 $\frac{1}{4}$	2,953	147 65	1,016	609 60	...	...	20 42	3	855	21 37	6	1,710	59 85	2	50 00	5	80 00	229 58	2,525 35
8	Elm St.	Avon St.	Howard.....	670	6"	32	9.57	"	306 24	12 $\frac{3}{4}$	714	35 70	446	267 60	...	...	4 78	...	...	...	3	600	21 00	...	...	3	33 00	66 83	735 15
	"	"	Avon.....	414	12"	86	15.88	"	508 16	27 $\frac{1}{4}$	954	47 70	276	165 60	...	...	7 94	...	...	...	4	1,800	63 00	...	...	2	46 00	83 84	922 24
9	Emerson St.	Cedar Park	Cedar Park....	840	8"	48	18.00	"	576 00	18 $\frac{3}{4}$	1,312	65 60	560	336 00	...	...	9 00	...	...	...	1	220	7 70	1	25 00	3	33 00	105 23	1,157 53
10	Cedar Park	Vinton St.	Railroad.....	360	6"	32	5.14	"	164 48	12 $\frac{3}{4}$	382	19 10	240	144 00	...	...	2 57	2	400	10 00	1	200	7 00	...	...	2	22 00	36 92	406 07
11	Linden St.	Elm St.	Porter.....	650	12"	86	24.95	"	798 40	27 $\frac{1}{4}$	1,471	73 55	434	260 40	...	...	12 47	...	...	...	1	450	15 75	...	...	2	70 00	123 06	1,353 63
12	Rowe St.	Porter St.	Upham.....	1,400	6"	32	20.00	"	640 00	12 $\frac{3}{4}$	1,491	74 55	1,380	828 00	...	...	10 00	...	...	...	4	800	28 00	1	25 00	4	49 00	165 45	1,819 90
13	Upham St.	Lebanon St.	Fletcher.....	1,740	10"	60	46.60	"	1,491 20	23 $\frac{1}{4}$	3,371	168 55	1,160	696 00	...	...	23 30	3	855	21 37	8	2,280	79 80	...	...	5	60 00	254 02	2,794 24
14	Howard St.	Green St.	Saugus Line....	3,500	10"	60	93.75	"	3,000 00	23 $\frac{1}{4}$	6,789	339 45	2,202	1,321 20	130	520 00	46 87	...	...	...	6	1,710	59 85	...	...	7	105 00	530 24	5,931 61
15	Herbert St.	Berwick St.	Myrtle.....	378	4"	22	3.71	"	118 72	8	256	12 80	252	151 20	...	...	1 85	...	...	...	...	...	...	...	...	3	27 00	31 16	342 73
16	Avon St.	Green St.	Elm.....	400	12"	86	15.36	"	491 52	27 $\frac{1}{4}$	926	46 30	266	159 60	...	...	7 68	...	...	...	...	...	...	...	...	...	...	70 51	775 61
	Totals						551.17		\$17,637 44		36,669	\$1,833 45	13,579	\$8,147 40	500	\$2,000 00	\$275 55	...	2,310	\$57 75	...	16,940	\$592 90	9	\$225 00	...	\$1,037 00	\$3,180 59	\$34,986 37
	Added to Estimate, February, 1903.																												
17	North Cedar Park			920	6"	32	13.14	"	420 48	12 $\frac{3}{4}$	981	49 05	546	327 60	68	272 00	6 57	...	...	...	5	600	21 00	1	25 00	3	33 00	115 46	1,270 06
18	South "	"		669	6"	32	9.55	"	305 60	12 $\frac{3}{4}$	714	37 70	361	216 60	85	340 00	4 78	...	...	...	4	400	14 00	...	...	...	...	91 87	1,010 55
	Totals						573.86		\$18,363 52		38,364	\$1,920 20	14,486	\$8,691 60	653	\$2,612 00	\$286 90	...	...	...	...	17,940	\$627 90	...	\$250 00	...	\$1,070 00	\$3,387 92	\$37,266 98

WATER DIVISION. TABLE I.
RELAY 1902. — SUMMARY OF WORK DONE AND ITS COST BY STREETS.

LOCATION.	Pipe laid.		Pipe abandoned.		Gates.		Hydrants.	Improvement in place charged to construction.		Cost.		Total Cost.
	Length in feet.	Size in inches.	Length in feet.	Size in inches.	No.	Size in inches.				Stock.	Labor.	
1 Ashland street.....	970	6	970	4	2	6	....	\$ 272.33	\$ 646.01	\$276.75		\$ 922.76
2 Berwick street.....	177	6	177	4	1	6	....	35.46	104.38	34.31		138.69
3 Cherry street.....	350	6	350	4	....	....	....	98.96	240.50	69.53		310.03
4 Cottage street.....	20	6	20	6	1	6	....	.....	29.81	6.25		36.06
5 Cleveland street.....	1,376	12	1,405	4'	3	12	....	.....	.....	.....		.....
	{	.....	.....	.....	2	6	....	1,748.90	2,358.12	692.41		3,050.53
	.....	.....	.....	.....	1	8	....	.....	.....	.....		.....
6 Dell avenue.....	1,170	6	1,170	4	4	6	....	.....	.....	.....		.....
7 East Emerson street...	322	6	322	4	1	6	....	342.55	797.59	541.55		1,339.14
8 West Foster street.....	1,325	8	1,336	4	1	6	....	94.54	219.27	100.05		319.32
9 East Foster street.....	13½	6	13½	6	3	8	....	712.05	1,241.29	322.18		1,563.47
10 First street.....	11	6	11	6	....	....	....	.....	18.45	8.78		27.23
{ Florence street.....	18½	6	18½	4	1	6	....	.....	9.42	2.00		11.42
{ Trenton street.....	13	8	13	4	1	8	....	.....	56.63	15.78		72.41
	{	497	220	2	....	....	....	30.60	.....	.....		.....
12 Hillside avenue.....	.....	.....	232	1	....	....	....	144.20	217.05	142.11		359.16
	.....	.....	45	4	....	....	....	.....	.....	.....		.....
13 Lebanon street.....	1,085	6	1,085	4	3	6	....	398.98	880.10	480.23		1,360.33
14 Laurel street.....	49	6	49	4	1	6	....	21.41	46.06	14.11		60.17
15 Maple street.....	922	8	1,158	4	2	8	....	.....	.....	.....		.....
	{	219	24	6	....	....	....	829.96	1,310.00	445.95		1,755.95
	.....	29	.....	.....	....	....	....	.....	.....	.....		.....

SUMMARY OF WORK DONE AND ITS COST BY STREETS. — *Continued.*

LOCATION.	Pipe laid.		Pipe abandoned.		Gates.		Hydrants.	Cost.			Total Cost.
	Length In feet.	Size Inches.	Length In feet.	Size Inches.	No.	Size Inches.		Stock.	Labor.		
16 Main street.....	32	12	32	12	1	12	....	\$ 90.79	37.70		\$ 128.49
17 Upham street.....	{ 953	10	953	4	1	4	....	1,252.83	431.52		1,684.35
18 Vine street.....	569	6	569	4	2	6	....	400.41	164.86		565.27
19 Vinton street.....	56	12	56	4	2	....	....	139.58	30.57		170.15
20 Willow street.....	620	6	620	2	1	6	....	400.86	121.48		522.34
21 Winthrop street.....	660	6	660	4	1	6	....	476.75	165.66		633.41
22 Wyoming avenue.....	424	16	424	16	....	....	....	776.71	282.12		1,058.83
23 { " (junc. Main st.)	{ 38	16	38	16	1	16	....	376.78	156.44		533.22
24 { " " " " " "	{ 32½	12	32½	12	1	12	....	....	....		....
25 { " West of R. R.	{ 1,483	16	1,483	16	3	16	....	4,001.47	1,253.03		5,254.49
26 { " " " " " "	{ 22	20	22	16	2	20	....	5.62	2.00		7.62
27 Winter street.....	2	6	2	4	....	....	....	....	....		....
By improvement to plant by increased size, and kind of pipe, charged to construction...								\$ 16,096.48	\$5,797.36		\$21,893.84
Cost of Relay								6,714.90	..		6,714.90
Cost of Relay								\$9,381.58	\$5,797.36		\$15,178.94

SUMMARY OF PIPE LAID AND ABANDONED.

NEW PIPE LAID.		OLD PIPE ABANDONED.	
Size.	Length.	Size.	Length.
4 inch	497 feet	$\frac{4}{1}$ inch	45 feet
6 "	6,066 "	1 "	232 "
8 "	2,260 "	2 "	840 "
10 "	953 "	4 "	10,293 "
12 "	1,715 $\frac{1}{2}$ "	6 "	68 $\frac{1}{2}$ "
16 "	1,945 "	12 "	64 $\frac{1}{2}$ "
20 "	22 "	16 "	1,967 "
	13,458 $\frac{1}{2}$ feet		13,510 feet

Number of Gates, 44.

Construction.

The principal item of expense charged to construction is the one designated as "improvement to plant," and is for the increase expense of relaying old mains on account of increasing their size; the other items are for extensions in various streets as enumerated, for additional gates and hydrants placed on existing lines, and for additional street service pipes to new houses.

A detail of all work done, together with its cost, follows:

WATER DIVISION. TABLE II.
CONSTRUCTION 1902.

SUMMARY OF WORK DONE AND ITS COST BY STREETS.

LOCATION.	Pipe.		Gates.		Hydrants.	Cost.		Total Cost.
	Length in feet.	Size inches.	No.	Size inches.		Stock.	Labor.	
Charles street.....	18	4	..	..	1	\$ 36.93	\$ 13.43	\$ 50.36
Cleveland street....	6½	6	..	..	1	51.03	.....	51.03
Chipman avenue....	377	4	1	4	..	.....	.....	.....
“ “	3	6	..	..	..	181.57	221.12	402.69
Clifton Park.....	150	4	..	..	1	99.78	118.51	218.29
Forest street.....	370	6	1	6	..	244.55	189.13	433.68
Henry avenue.....	172	6	1	6	..	127.92	65.90	193.82
Hancock street. .	60	6	..	..	..	35.55	26.57	62.12
Hillside avenue....	109	4	2	4	1	88.65	29.92	118.57
Lebanon street.....	..	..	5	6	1	112.15	.....	112.15
Orient place.....	5	6	..	..	1	.....	.....	.....
“ “	2	4	..	..	..	43.50	7.75	51.25
Waverly avenue....	420	6	..	..	1	283.36	141.72	425.08
	656	4						
	1,036	6						
Total	1,692		10		7	\$1,304.99	\$814.05	\$2,119.04
To Improvement of plant from Relay.....						6,714.90	.....	6,714.90
						\$8,019.89	\$814.05	\$8,833.94
CONSTRUCTION OF OUTSIDE SERVICES.								
No. of services	29 lead	570	¾					
“ “ “	17 lead	350	¾					
“ “ “	1 iron	24	¾			342.10	161.83	503.93
Totals.....47 services 944 ft.						\$8,361.99	\$975.88	\$9,337.87
Due Maintenance for stock used.						35.58	.....	35.58
Total charged construction 1902 account.						\$8,326.41	\$975.88	\$9,302.29

SUMMARY OF PIPE LAID AND ABANDONED.

NEW PIPE LAID.			OLD PIPE ABANDONED.		
4 inch.....	656 ft.	¾ inch.....	150 ft. (Clifton Park)		
6 inch.....	1,036½ ft.	2 inch.....	320 ft. (Chipman Ave.)		
	1,692½ ft.		470 ft.		

Number of Gates, 10,

Number of Hydrants, 7.

General Maintenance.

I am pleased to report that, notwithstanding the continued growth of the system and the consequent increase of work, the cost of maintenance continues to decrease.

The total net cost of maintenance for 1901 was \$6,606.33, for 1902 it was only \$5,675.75, a decrease of \$930.58, while the income was increased from \$50,621.31 to \$51,977.58, or a gain of \$1,356.27.

All stock purchased is charged to this account, and when used credit is given, making it necessary to keep what is termed a stock account. Last year the stock balance was \$3,641.55, while this year it is only \$2,111.27, showing that stock to the value of \$1,530.28 was used from the amount carried over from 1901.

47.075 miles of mains have been cared for.

56 breaks on cement mains repaired.

4 leaks on cast iron mains repaired.

23 gates repacked.

273 fire hydrants cleaned, painted, oiled and kept free from snow and ice.

97 services cleaned (outside).

66 " " (inside).

21 " renewed.

47 new services laid.

13 new meters set.

82 meters examined and repaired when needed.

GENERAL MAINTENANCE—EXPENDITURES IN DETAIL.

Amount paid James McTiernan, as per	
pay rolls,	\$918 00
Amount paid W. H. Martin, as per pay	
rolls,	460 23
Amount paid Edward Riley, as per	
pay rolls,	313 00
Amount paid sundry persons for labor,	
inspecting, sealing, off and on wa-	
ter, as per pay rolls,	388 85
Amount carried forward,	\$2,080 08

Amount brought forward,	\$2,080 08
One-half yard rent, Tremont street, . . .	\$175 00
Rent of shop, Sanford street	150 00
Board 2 horses, " "	456 00
Repairs to carts and harnesses, and medicine,	148 80
Seals for sillcocks,	16 00
Rent and service of telephone,	33 59
Books, stationery and postage,	151 05
Card index,	86 00
Advertising,	13 63
Blacksmithing, horses and tools,	140 51
Hardware, gasoline and sundries,	37 52
Damages on account of water and in- jury to help,	40 55
Oil, waste and sundries,	62 88
	<hr/>
	1,511 53
	<hr/>
	\$3,591 61

Maintenance of Services.

Labor as per pay rolls,	\$1,021 38
Stock used,	312 63
	<hr/>
	1,334 01

Maintenance of Main Lines.

Labor, repairing leaks, etc.,	\$670 18
" caring for hydrants,	109 65
Stock used in repairs of leaks.	353 94
	<hr/>
	1,133 77

Inside Service and Charges.

Labor as per pay rolls,	\$529 19
Stock used,	763 67
	<hr/>
	1,292 86

Total, \$7,352 25

NOTE. — To obtain net cost of maintenance, subtract receipts,
\$1,676.50, = \$5,675.75.

STOCK ACCOUNT.

Stock on hand February 1, 1902, as per report,	\$3,641 55
To cast iron pipe and fit- tings, bought 1902,	\$8,994 95
	<hr/>
Am't carried forward, \$8,994 95	\$3,641 55

Am't brought forward,	\$8,994 95	\$3,641 55
To freights paid on stock, and teaming charges,	988 56	
To wrought iron pipe and fittings,	202 31	
To lead, lead pipe and solder,	4,237 04	
To brass fittings, stops, cor- porations, etc., . . .	837 85	
To hydrants, gates and valves,	991 16	
To gate boxes,	72 71	
To tin lined pipe, . . .	9 44	
To new carts and harnesses,	113 50	
To new meters and repair of old ones,	45 90	
To new tools,	380 55	
To wood and coke, . . .	34 38	
To gravel,	16 20	
To cement, pipe, and sun- dries from other divi- sions,	181 93	
To lumber,	21 29	
To jute, packing and clay,	45 36	
To advertising for bids,	33 01	
To labor on stock at shop, fitting up for street work,	401 81	
	<hr/>	\$17,607 95
Total,		<hr/> \$21,249 50

CR.

By stock used in construction, . . .	\$8,326 41
By stock used in relay,	9,381 58
By stock used in maintenance services,	312 63
By stock used in maintenance main lines,	353 94
By stock used in inside services, . . .	763 67
	<hr/>
	\$19,138 23
Stock balance,	<hr/> \$2,111 27

TOTAL OF DISTRIBUTING PIPES LAID TO JANUARY 31, 1903.—Continued.

[illegible]

TOTAL OF DISTRIBUTING PIPES LAID TO JANUARY 31, 1903.—Continued.

LOCATION.	FEET OF CAST IRON PIPE.										FEET OF CEMENT PIPE.						
	¾ in	1-in	1½ in	2-in	4-in	6-in	8-in	10-in	12-in	14-in	16-in	2-in	4-in	6-in	8-in	10 in	12-in
Size of pipe.....																	
Short street.....													216				
Sibley ".....													893	145			
Sixth ".....				120		37				430							
South avenue.....						440											
Spear street.....					10	228								450			
Spring ".....															400		
Staples ".....																	
Stevens place.....						360											
Summer street.....													1,030				
Summit avenue.....													442				
Swains Pond avenue.....						1,060							920	900			
Sylvan street.....						320											
Tappan ".....													1,070				
Trenton ".....							2,740										
Trenton ".....					50		2,560										
Union ".....													673				
Upham ".....									953				4,628	400			
Upland road.....																	
Vine street.....						569											
Vinton ".....						1,770		350		56			754	1,930			
Vinton ".....				315		340											
Vista ".....					200												
Walnut ".....					420												
Walton park.....													1,037				
Warren street.....													610				
Warwick road.....					350												
Washington street.....																	
Water street.....								1,770								1,700	1,200
Waverly avenue.....						160											
Waverly place.....						620											
Waverly place.....						690											
West Hill avenue.....														897			
Wheeler ".....						545											
Whitman ".....						370											
Whittier street.....						630											
Willow ".....						620											
Winter ".....																250	
Winthrop ".....						660											
Winthrop place.....					18	360							202				

TOTAL OF DISTRIBUTING PIPES LAID TO JANUARY 31, 1903.—Continued.

LOCATION.	FEET OF CAST IRON PIPE.										FEET OF CEMENT PIPE.							
	¾-in	1-in	1½-in	2-in	4 in	6-in	8-in	10-in	12-in	14-in	16-in	2-in	4-in	6 in	8-in	10-in	12-in	16-in
Size of pipe.....																		
Woodland avenue....					1,500													
Wyoming "					600				32		2,345							933
Wyoming park					375								500					
York terrace.....						600												
York terrace, private way to Ferdinand street						150												
Youle street.....						350							1,600					
Totals.....	1,559	1,105	*725	6,308	11,430	69,963	19,724	4,810	12,271	2,920	4,245	1,523	71,135	32,936	1,700	1,200	4,050	933

SUMMARY.—Cement, 113,477 feet, or 21.492 miles; Cast Iron, 135,082 feet, or 25.583 miles.

NOTES.—The above includes 5,287 feet of pipe in Stoneham and 290 feet in Wakefield, and excludes 600 feet of service pipe in Kenwick Road, Wakefield.

Metropolitan water pipe in Melrose, 1.09 miles of 48 inch iron pipe.

* 175 feet of this is 1¾ inch pipe.

† 22 feet of 20 inch iron pipe.

SEWER DIVISION.

Construction.

The sewers ordered built by the Board of Aldermen, July 9, 1901, and which were contracted for by F. E. Ellis of Melrose, Mass., were not completed until this year.

The following orders were passed in 1902 for constructing sewers:

Argyle Street,	Order No. 1687,	Appropriation, \$650 00
Heyward Avenue, " "	1438,	" 2,000 00
Richardson Road, " "	1873,	" 1,843 00
Apthorp Road, " "	1953,	No appropriation

All of these have been constructed, except the one in Richardson Road, which was postponed on account of weather, as the order was not passed until October 13, 1902.

The sewer in Apthorp Road was built by the Board of Sewer Commissioners in 1898, and was reported as a private sewer and paid for by Charles M. Cox; but by special agreement with Mr. Cox, it was to become a public sewer at any time when it was used to drain the second building, in which event he was to be refunded the original cost of the sewer. On November 12, 1902, the second building was connected, and the sewer made a public one, and \$443.37 was refunded to Mr. Cox.

No new contracts for materials were made, except for 4-inch soil pipe; the stock purchased was under the terms of the contracts of 1901. Soil pipe was purchased from Salt & Allmon, who were the lowest bidders, as is seen from the following canvass of bids:

CANVASS OF BIDS FOR 500 FEET OF SOIL PIPE.

Opened April 5, 1902.

NAME.	Address.	Amount.
David Craig.....	70 Broad Street, Boston, Mass.....	\$130.00
J. L. Holbrook.....	Melrose, Mass.....	125.00
R. H. Curry.....	Melrose Highlands, Mass.....	127.00
George H. Taylor.....	Wakefield, Mass.....	135.00
Brock Brothers.....	Melrose, Mass.....	124.00
John Connors.....	Melrose, Mass.....	123.00
Salt & Allmon.....	Melrose, Mass.....	115.00

Cost of System.

During the construction of the sewers under the management of the Sewer Commissioners, neither the Treasurer nor Auditor kept but one account, and all bills and expenses were charged to this account. The first of the year the Auditor asked for the total net cost of system to date (January 31, 1902). As my letter to him was a resumé of all expenditures and receipts and gave the total cost of the system to that date, and is the basis on which the cost will be made from year to year, I give a copy below:

MELROSE, MASS., Jan. 31, 1902.

E. C. GOULD, ESQ., City Auditor,
MELROSE, MASS.

Dear Sir: In accordance with your request I have carefully gone over all the expenditures in the Sewer Department with the view of obtaining the exact net cost of the system to date, and submit to you the following:

Total bond issue,	\$350,000 00
Appropriation,	25,000 00
	<hr/>
	\$375,000 00
Unexpended balance, January 31, 1902,	7,183 09
	<hr/>
	\$367,816 91
To offset this expenditure the City has	
a system valued at	363,205 26
And personal property valued at	4,611 65
	<hr/>
	\$367,816 91

SEWER DEPARTMENT RECEIPTS AND EXPENDITURES, TO
JANUARY 31, 1902.

DR.

To sale of bonds,	\$350,000 00
" appropriation from Sewer Collec-	
tions,	10,000 00
Amount carried forward,	<hr/>
	\$360,000 00

Amount brought forward,	\$360,000	00	
To appropriation from Sewer Collec-			
tions,	15,000	00	
To appropriation for Maintenance,	3,737	21	
“ am’t transferred from Maintenance,	996	31	
“ “ from Commonwealth of Mass.,	15,000	00	
“ app. Maintenance 1901			
labor,	\$728	69	
To app. Maintenance 1901			
rent,	175	00	
To app. Maintenance 1901			
contingent,	100	00	
			1,003 69
To sundry collections 1894,	\$375	00	
“ “ “ 1895,	355	27	
“ “ “ 1896,	546	33	
“ H. S. Eveline’s bond,			
1896,	5,000	00	
To H. S. Eveline’s stock			
1896,	66	43	
To sundry collections 1897,	495	44	
“ “ “ 1898,	539	03	
“ “ “ 1899,	518	55	
Messenger, 1899,	200	00	
To sundry collections 1900,	1,123	72	
“ “ “ 1901,	4,599	24	
			13,819 01
To Private Sewers 1895,	\$5,349	79	
“ “ “ 1896,	9,396	05	
“ “ “ 1897,	6,179	87	
“ “ “ 1898,	4,856	94	
“ “ “ 1899,	10,075	08	
“ “ “ 1900,	6,092	29	
“ “ “ 1901,	2,919	60	44,869 62
Total of all receipts,			\$454,425 84

CR.

By cost of Sewer Construction	1894,	\$ 70,881 46	
" " " "	1895,	89,553 01	
" " " "	1896,	93,033 02	
" " " "	1897,	92,102 66	
" " " "	1898,	17,735 34	
" " " "	1899,	13,661 71	
" " " "	1900,	3,180 40	
" " " "	1901,	13,890 25	
			\$394,037 85
By cost of Private Sewers	1895, .	\$ 5,651 73	
" " " "	1896, .	9,636 72	
" " " "	1897, .	6,522 96	
" " " "	1898, .	5,109 03	
" " " "	1899, .	11,745 35	
" " " "	1900, .	5,882 30	
" " " "	1901, .	2,838 94	
			47,387 03
By cost of Maintenance	1895, .	\$ 276 10	
" " " "	1896, .	601 04	
" " " "	1897, .	693 32	
" " " "	1898, .	292 08	
" " " "	1899, .	1,891 60	
" " " "	1900, .	979 38	
" " " "	1901, .	662 53	
			5,396 05
By unexpended balances :			
Sewer Construction, . . .	\$7,183 09		
Maintenance, . . .	341 16		
Private Sewers, . . .	80 66		
			7,604 91
			\$454,425 84

NOTE :—In the year 1894, \$1,500, and in the year 1895, \$5,000 were paid for interest and afterwards refunded from the interest account.

SEWER CONSTRUCTION ACCOUNT.

DR.

To bonds sold,	\$350,000 00
" app. from assessments,	10,000 00
Amount carried forward,	\$360,000 00

Amount brought forward,	. . . . .	\$360,000 00
To app. from assessments	. . . . .	\$15,000 00
" sundry receipts,	. . . . .	28,819 01
		<u>403,819 01</u>

CR.

By cost of construction,	. . . . .	\$394,037 85
" deficiency, private sewers,	. . . . .	2,598 07
		<u>396,635 92</u>
Unexpended balance Jan. 31, 1902,	. . . . .	\$7,183 09

MAINTENANCE ACCOUNT.

DR.

To total of all appropriations,	\$5,737 21
---------------------------------	-----------	------------

CR.

By total cost,	. . . . .	5,396 05
Unexpended balance to credit of maintenance, Jan. 31, 1902, (labor, \$338.01, contingent, \$3.15),	. . . . .	\$341 16

PRIVATE SEWER ACCOUNT.

DR.

To total cost,	\$47,387 03
----------------	-----------	-------------

CR.

By cash paid Treasurer,	. . . . .	44,869 62
		<u>\$2,517 41</u>
Plus amount to credit of private sewers,	. . . . .	80 66
Total deficiency charged to con- struction,	. . . . .	\$2,598 07

NOTE.—Abatements on account of construction :

1895, . . .	\$363 29
1896, . . .	147 35
1897, . . .	13 00
1898, . . .	135 57
1899, . . .	153 13
1900, . . .	18 95
	<hr/>
	\$ 831 29
Net deficiencies to Jan.	
31, 1902, . . .	1,766 78
	<hr/>
	\$2,598 07

COST OF SEWER CONSTRUCTION.

Appropriation,		\$375,000 00
1894. All bills charged to		
construction, . . .	\$70,881 46	
Less receipts, . . .	375 00	
	<hr/>	\$70,506 46
1895. All bills charged to		
construction, . . .	\$89,553 01	
Deficiency, private		
sewers,	301 94	
	<hr/>	\$89,854 95
Less receipts	355 27	
	<hr/>	89,499 68
1896. All bills charged to		
construction, . . .	\$93,033 02	
Deficiency, private		
sewers,	240 67	
	<hr/>	\$93,273 69
Less receipts,	15,612 76	
	<hr/>	77,660 93
1897. All bills charged to		
construction, . . .	\$92,102 66	
Deficiency, private		
sewers,	343 09	
	<hr/>	\$92,445 75
Less receipts,	495 44	
	<hr/>	\$91,950 31
Amounts carried forward, . . .	\$329,617 38	\$375,000 00

Amounts brought forward, . . .	\$329,617 38	\$375,000 00
1898. All bills charged to		
construction, . . .	\$17,735 34	
Deficiency, private		
sewers,	252 09	
	<u>\$17,987 43</u>	
Less receipts,	539 03	
	<u>17,448 40</u>	
1899. All bills charged to		
construction,	\$13,661 71	
Deficiency, private		
sewers,	1,670 27	
	<u>\$15,331 98</u>	
Less receipts,	5,718 55	
	<u>9,613 43</u>	
1900. All bills charged to		
construction,	\$3,180 40	
Less receipts sundry,	1,123 72	
	<u>\$2,056 68</u>	
Less surplus private		
sewers,	209 99	
	<u>1,846 69</u>	
1901. All bills charged to		
construction,	\$13,890 25	
Less receipts,	4,599 24	
	<u>9,291 01</u>	
	<u>367,816 91</u>	
Unexpended balance, Jan. 31, 1902,		\$7,183 09
Respectfully submitted,		
W. DABNEY HUNTER,		
Engineer and Superintendent.		

COST OF SYSTEM TO DATE, FEB. 1, 1903.

Cost of system, as per special report		
to the Auditor, Jan. 31, 1902,	\$367,816 91	
Expended in 1902,	10,042 36	
	<u>\$377,859 27</u>	
Total cost,		

RECEIPTS AND EXPENDITURES.

Balance Feb. 1, 1902,	\$7,183 09
Appropriation, Order No. 1,438 . .	2,000 00
" " " 1,687 . .	650 00
" " " 1,873 . .	1,843 00
Cash receipts paid to Treasurer, .	23 00
Stock for city scales,	21 35
" " Wells drain,	111 62
" " water division,	60 38
" " highway division	966 89
" " bridges and culverts	267 37
" " sidewalks,	163 25
" " private sewers,	694 43
	<hr/> \$13,984 38

EXPENDED.

Labor as per pay rolls.

Heyward Ave.,	\$ 755 53
Argyle St.,	314 86
Corey Place,	125 15
Yard,	134 53
Inspection, Hesseltine Ave.,	177 38
Delivering stock Hesseltine Ave.,	30 38
	<hr/> \$1,537 83
Amount paid F. E. Ellis, . .	\$4,000 58
Sundries, blacksmith, tools, etc.,	292 48
Cement,	1,184 35
Brick,	647 50
Lumber	218 32
Freight on stock,	204 15
Soil pipe,	190 50
Sewer pipe,	448 88
Pileing,	392 37
Pumping and coal,	104 58

Amt's carried forward, \$7,683 71 \$1,537 83 \$13,984 38

SEWER CONSTRUCTION.

Under Contract with Fred E. Ellis of Melrose, Mass., Dated (August 31, 1901.)

FINAL ESTIMATE OF QUANTITIES, JUNE 1, 1902.

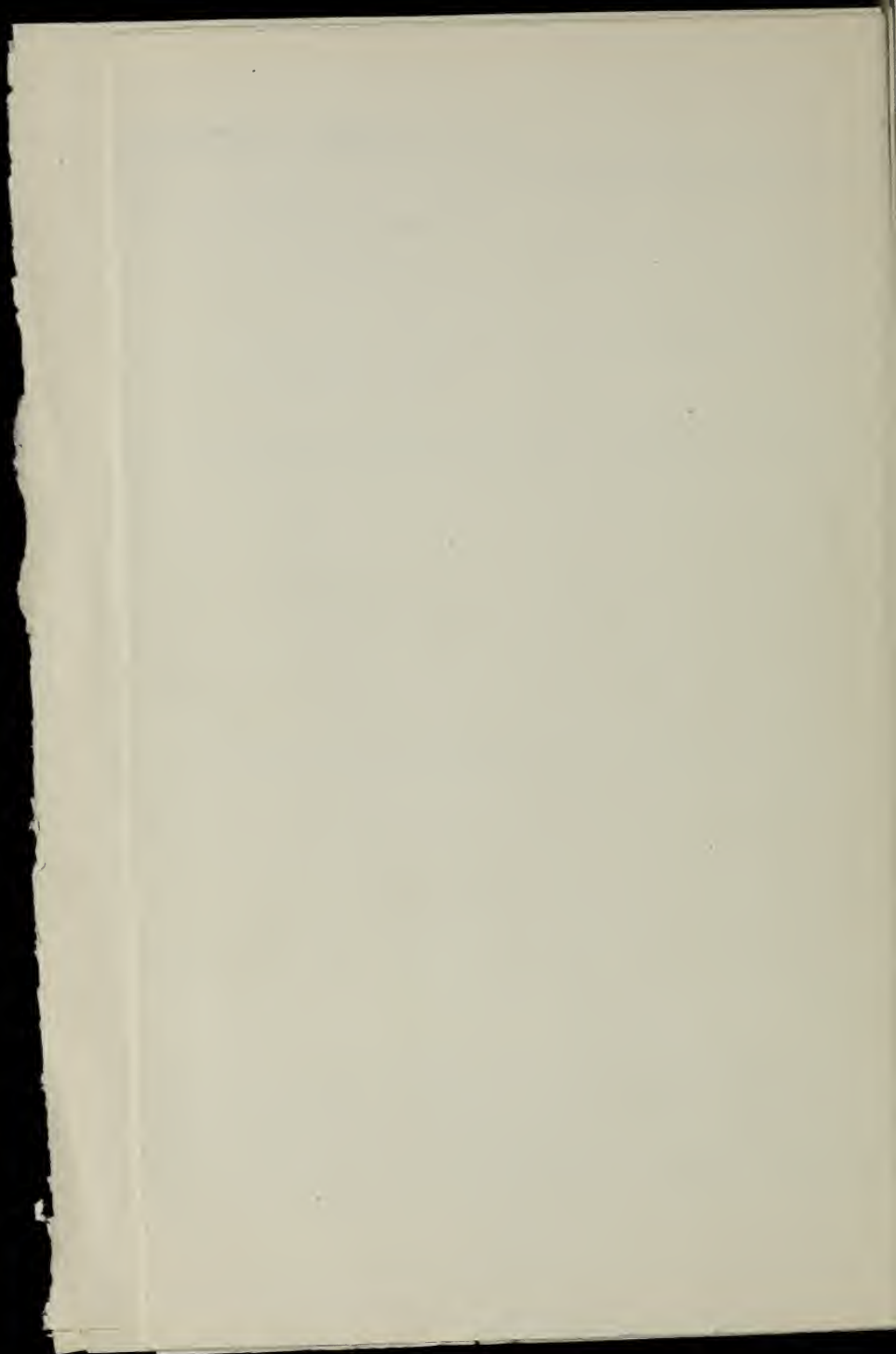
STREETS SEWERED.	a		b		c		d		g		h		i		j		m		n		p		q		r		s		t		u		x		y		aa		bb	Totals.		
	Earth excavation, 0-8 ft.		Earth excavation, 8-12 ft.		Earth exca., 12-16 ft.		Earth exca , 16-20 ft.		Rock excavation, 0-8 ft.		Rock excavation, 8-12 ft.		Rock exca., 12-16 ft.		Rock exca., 16-20 ft.		Brick masonry.		Concrete masonry.		Spruce lumber placed and secured.		Piles.		6-in. pipe.		8-in pipe.		10-in. pipe.		12-in.drain.		Chimneys.		Underdrain.		Sheeting left in.		Extra work.			
	Cubic yards.	Amount @ 88c.	Cubic Yards.	Amount @ 98c.	Cubic yards.	Amount @ \$1.08	Cubic yds.	Am't @ \$1.18	Cubic yards.	Amount @ \$4.50	Cubic yards.	Amount @ \$5.50	Cubic yds.	Amount @ \$7.50	Cubic yds.	Amount @ \$10.00	Cubic yds.	Am't @ \$5.00	Cubic yds.	Am't @ \$4.00	M. ft. B. M.	Amount @ \$40.00	Linear feet.	Amount @ 15c.	Linear feet.	Am't @ 5c.	Linear feet.	Amount @ 6c.	Linear feet.	Am't @ 7c.	Linear feet.	Am't @ 8c.	Vertical feet.	Am't @ 30c.	Linear feet.	Amount @ 15c.	M. ft. B. M.	Amount @ \$13.00	Cost + 15%			
Boardman ave., east.....	212.07	\$180.62	1.22	\$ 1.19	2.54	\$12.70	254	\$15.24	254	\$38.10	\$253.85		
Boardman ave., west.....	574.85	505.87	16.63	16.30	4.06	\$ 22.32	1.16	\$ 6.38	5.95	29.75	200	12.00	454	31.78	534	80.10	704.50		
Damon ave.....	192.22	169.15	2.73	13.65	276	16.56	274	41.10	240.46		
Frost ave.....	391.90	344.87	2.44	2.39	2.70	12.15	2.54	12.70	494	29.64	494	74.10	475.85		
Hawes ave.....	455.58	400.91	13.33	13.06	3.03	15.15	3.298	\$131.92	1,494	\$224.10	518	36.26	270	40.50	861.90
Henry ave.....	522.75	460.02	87.57	85.82	6.83	\$ 7.38	54.80	246.60	41.55	228.52	3.55	\$ 26.62	10.41	52.05	2.33	\$ 9.32	663	39.78	28	\$ 8.40	100	15.00	1,179.52		
Henry ave., drain.....	26.00	22.88	2.00	9.00	1.55	7.75	52	\$4.16	43.79		
Hesseltine ave.....	877.13	771.87	256.19	251.07	112.33	121.32	16.15	\$19.05	13.15	60.80	61.80	339.90	81.97	614.78	52.07	\$520.70	26.38	131.90	3.11	12.44	16	.96	1,006	70.42	263	78.90	901	144.15	.147	1.91	3,140.16	
Heywood ave.....	399.71	351.75	7.75	38.75	4.834	193.36	3,295	494.25	515	36.05	442	66.30	2.72	35.36	1,215.82	
Howie court.....	468.25	412.06	3.82	3.74	24.00	108.00	4.22	21.10	644	\$32.20	\$ 7.04	584.14	
Pearl street, east.....	350.66	308.58	34.74	34.04	8.44	37.98	13.44	73.92	6.32	31.60	404	28.28	444	66.60	581.00		
Pearl street, west.....	454.73	400.16	24.04	23.56	17.69	79.60	3.30	16.50	550	33.00	275	41.25	594.07		
Richardson road.....	142.50	125.40	5.00	22.50	199	9.95	157.85		
Right of Way, N. of Pearl st..	477.36	420.08	8.98	8.80	12.78	63.90	653	45.71	653	97.95	9.088	118.14	22.10	776.68
Right of Way, S. of Pearl st..	270.74	238.25	41.22	40.40	34	10.20	305	45.75	4.68	60.84	416.79	
Totals.....	5,816.45	\$5,118.47	490.18	\$480.37	119.16	\$128.70	16.15	\$19.05	133.10	\$598.95	117.95	\$648.72	85.52	\$641.40	52.07	\$520.70	89.50	\$447.50	5.44	\$21.76	8.132	\$325.28	4,789	\$718.35	843	\$42.15	2,453	\$147.18	3,855	\$269.85	52	\$4.16	325	\$97.50	5,006	\$750.90	16.635	\$216.25	\$29.14	\$11,226.38	

SEWER CONSTRUCTION.

Under Contract with Fred E. Ellis of Melrose, Mass., Dated (August 31, 1901.)

SCHEDULE OF WORK DONE IN 1902. (Including final Statement.)

STREETS SEWERED.	a		b		c		d		g		h		i		j		m		n		p		q		r		s		t		u		x		y		aa		bb		Totals.		
	Earth excavation, 0-8 ft.		Earth excavation, 8-12 ft.		Earth exca., 12-16 ft.		Earth exca., 16-20 ft.		Rock excavation, 0-8 ft.		Rock excavation, 8-12 ft.		Rock exca., 12-16 ft.		Rock exca., 16-20 ft.		Brick masonry.		Concrete masonry.		Spruce lumber placed and secured.		Piles.		6-in. pipe.		8-in pipe.		10-in. pipe.		12-in.drain.		Chimneys.		Underdrain.		Sheeting left in.		Extra work.				
	Cubic yards.	Amount @ 88c.	Cubic Yards.	Amount @ 98c.	Cubic yards.	Amount @ \$1.08	Cubic yds.	Am't @ \$1.18	Cubic yards.	Amount @ \$4.50	Cubic yards.	Amount @ \$5.50	Cubic yds.	Amount @ \$7.50	Cubic yds.	Amount @ \$10.00	Cubic yds.	Am't @ \$5.00	Cubic yds.	Am't @ \$4.00	M. ft. B. M.	Amount @ \$40.00	Linear feet.	Amount @ 15c.	Linear feet.	Am't @ 5c.	Linear feet.	Amount @ 6c.	Linear feet.	Am't @ 7c.	Linear feet.	Am't @ 8c.	Vertical feet.	Am't @ 30c.	Linear feet.	Amount @ 15c.	M. ft. B. M.	Amount @ \$13.00	Cost + 15%				
Boardman ave., east.....																	.56	\$2.80																						\$2.800			
Boardman ave., west.....																	1.015	5.075																							5.075		
Damon ave.....	2.32	2.042															.57	2.85																4	.60					5.492			
Frost ave.....																	.18	.90																						.900			
Hawes ave.....																	.53	2.65																						2.650			
Henry ave.....	3.55	3.124	1.77	1.734	.61	\$.659											1.02	5.10									8	.48													11.097		
Hesseltine ave.....	569.09	500.79	109.75	107.555					10.44	\$ 46.98	52.73	290.015	49.86	\$373.95	4.63	\$46.30	26.38	131.90									16	.96	746	52.22			178	53.40	698	104.70	.147	1.91				1,710.680	
Heywood ave.....	6.48	5.702															2.05	10.25										4	.28													16.232	
Howie court.....	3.00	2.64	1.11	1.088													.56	2.80																							6.528		
Pearl street, east.....																	.21	1.05																								1.050	
Pearl street, west.....																	.13	.65																								.650	
Right of Way, north.....																	3.555	17.775											4	.28					4	.60							18.655
Right of Way, south.....	270.74	238.25	41.22	40.395																								305	21.35					34	10.20	305	45.75	4.68	60.84				416.785
Richardson road.....																										4	.20																.200
Totals, 1902.....	855.18	\$752.55	153.85	\$150.772	.61	\$.659			10.44	\$46.98	52.73	\$290.015	49.86	\$373.95	4.63	\$ 46.30	36.76	\$183.80								4	\$.20	24	\$ 1.44	1,059	\$ 74.13			212	\$63.60	1,011	\$151.65	4.827	\$ 62.75				\$2,198.794
Work done in 1901.....	4,961.27	4,365.91	336.33	329.53	118.55	128.03	16.15	\$19.05	122.66	551.96	65.22	358.70	35.66	\$267.45	47.44	474.40	52.74	263.70	5.44	\$21.76	8.132	\$325.28	47.89	\$718.35	839	41.95	2,429	145.74	2,796	195.72	52	\$4.16	113	33.90	3,995	599.25	11.808	153.50	\$29.14				9,027.586
Totals as per final Statement	5,816.45	\$5,118.47	490.18	\$480.37	119.16	\$128.689	16.15	\$19.05	133.10	\$598.95	117.95	\$648.725	85.52	\$641.40	52.07	\$520.70	89.50	\$447.50	5.44	\$21.76	8.132	\$325.28	47.89	\$718.35	843	\$42.15	2,453	\$147.18	3,855	\$269.85	52	\$4.16	325	\$ 97.50	5,006	\$750.90	16.635	216.25	\$29.14				\$11,226.380



Amt's brought forward,	\$7,683 71	\$1,537 83	\$13,984 38
Sewer rods,	176 50		
. Printing, stationery, etc., .	57 50		
Registering deeds, . . .	2 85		
T. S. Johnson and A. C.			
Getchell, Allen Case, .	108 50		
C. M. Cox, sewer Aphorp Rd	443 37		
Norris & Co., concrete, .	4 41		
Highway Division, teams,	22 69		
Sarah Ferris, land taking,	5 00		
	<hr/>	8,504 53	
		<hr/>	10,042 36
Balance in Treasury,			\$ 3,942 02

NOTE: — Treasurer's balance \$5.00 more, Burnett's bill thrown out by Committee on Accounts.

SEWERS BUILT TO FEBRUARY 1, 1903.

Size Pipe.	LENGTH IN FEET.										Totals.
	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.		
6	14,003.16	20,411.66	26,179.93	22,916.40	2,512.00	4,662.40	.....	839	585	92,110.55
8	5,439.89	8,020.03	15,505.79	11,817.90	1,424.00	1,530.10	.....	2,429	468	46,634.71
10	1,508.02	4,968.55	2,152.38	2,946.60	.....	1,067.00	.....	2,796	1,251	16,689.55
12	949.95	1,250.69	2,407.62	5,672.64	.....	.....	.....	.....	.....	10,280.90
15	354.80	.....	.....	3,121.73	.....	.....	.....	.....	.....	3,476.53
18	2,715.07	.....	317.66	2,117.10	.....	.....	.....	.....	.....	5,149.83
20	2,788.30	.....	.....	.....	.....	.....	.....	.....	.....	2,788.30
24	1,213.10	.....	.....	.....	.....	.....	.....	.....	.....	1,213.10
Brick	.....	.....	.....	3,034.94	.....	.....	.....	.....	.....	3,034.94
20 x 18	.....	.....	.....	.....	.....	.....	.....	.....	.....	111.00
20	111.00	.....	.....	.....	.....	.....	.....	.....	.....	28.00
24	28.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	29,112.29	34,650.93	46,563.38	51,627.31	3,936.00	7,259.50	.....	6,064	2,304	181,517.41

NOTE. — Total length of sewers, 181,517.41 feet or 34.38 miles, 2.4 miles of which are owned and controlled by the Commonwealth of Massachusetts, but by an act of the legislature Melrose is permitted to use in the same manner as the local sewers.

DETAIL OF SEWER CONSTRUCTION DONE BY THE CITY DURING THE YEAR 1902.

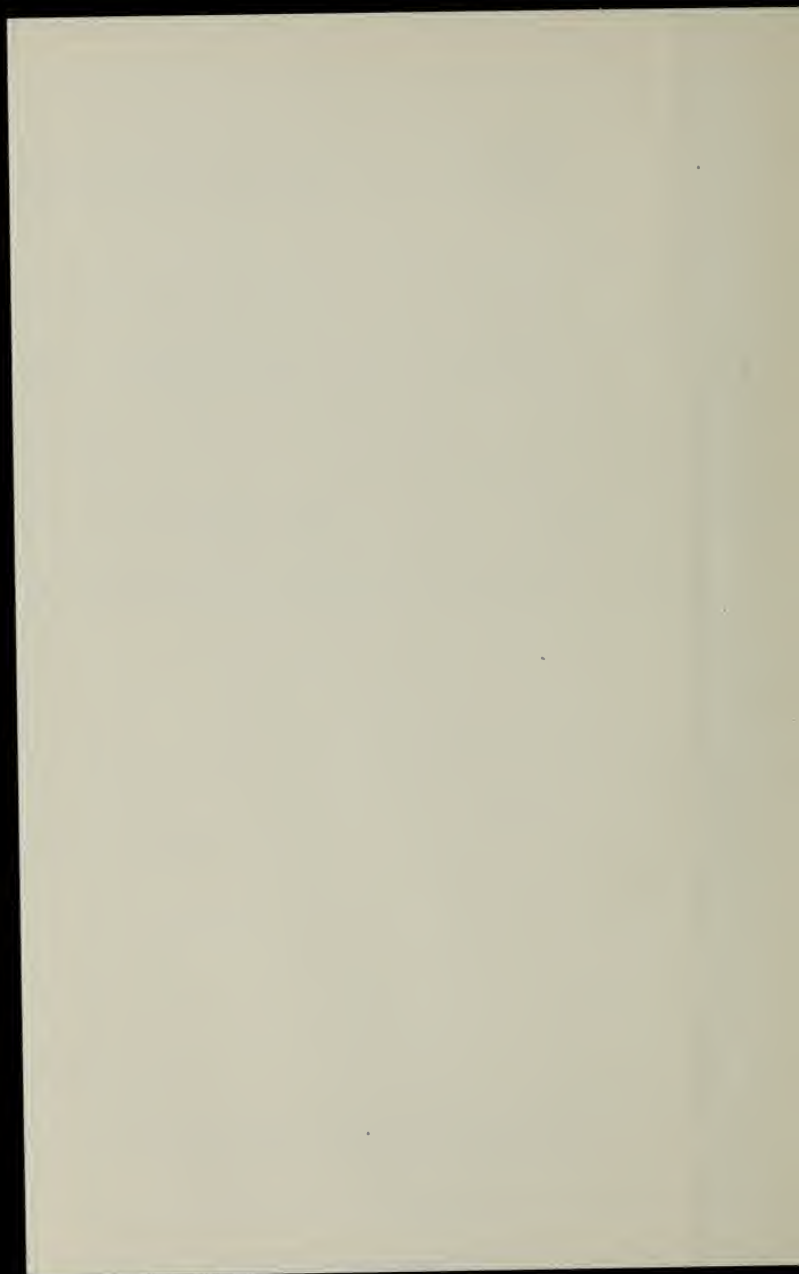
Stock Account.

LOCATION.	Iron pipe.		Sewer pipe.				Underdrain.				Portland cement.		Manholes.				Y branches.				Piling.		Brick.		Lumber.		Totals.		
	6 in.	Am't @ \$.53	6 in.	Am't @ \$.11	8 in.	Am't @ \$.185	10 in.	Am't @ \$.278	5 in.	Am't @ \$.093	Bbls.	Am't @ \$2.75	Frame & cover.	Am't @ \$8.50	Rods.	Am't @ \$0.10	6 in.	Am't @ \$.50	8 in.	Am't @ \$.833	10 in.	Am't @ \$1.26	Lbs. ft.	Am't @ \$.25	M.	Am't @ \$11.00		Ft.	Am't @ \$22.00
Argyle street....	...	...	360	\$39.60	...	...	...	...	150	\$13.95	13	\$35.75	2	\$17.00	5	.50	22	\$11.00	...	...	...	...	...	...	3,250	\$35.75	...	...	\$153.55
Corey place.....	48	25.44	120	13.20	...	...	...	...	62	5.76	6	16.50	1	8.50	2	.20	7	3.50	...	...	...	...	...	...	1,500	16.50	...	...	89.60
Heywood avenue...	...	...	...	...	398	\$73.63	172	\$47.82	166	15.44	20	55.00	3	25.50	8	.80	...	...	30	\$24.99	30	\$37.80	2,115	\$528.75	3,500	38.50	5,970	\$131.34	\$979.57
Totals	48	\$25.44	480	\$52.80	398	\$73.63	172	\$47.82	378	\$35.15	39	\$107.25	6	\$51.00	15	\$1.50	29	\$14.50	30	\$24.99	30	\$37.80	2,115	\$528.75	8,250	\$90.75	5,970	\$131.34	\$1,222.72

Labor Account.

LOCATION.	Earth excavation.				Brick masonry.		Pipe laying.								Foundation.		Total cost of labor.	Total cost of stock.	Total cost.
	0-8	Am't @ av. cost, \$.827	8-12	Amount @ \$.93	Cubic yds.	Amount @ \$.500	6 in.	Amount @ \$.05	8 in.	Amount @ \$.06	10 in.	Amount @ \$.07	Under-drain.	Amount @ \$.15	Capping piles, etc., ft.	Am't @ \$10.00 per M.			
Argyle street.....	303	\$244.36	...	...	6.0	\$30.00	360	\$18.00	...	...	...	...	150	\$22.50	...	...	\$314.86	\$153.55	\$468.41
Corey place.....	117	93.95	...	...	2.7	13.50	168	8.40	...	...	...	...	62	9.30	...	...	125.15	89.60	214.75
Heywood avenue.....	711	597.35	118	\$109.72	6.5	32.50	...	...	398	\$23.88	172	\$12.04	166	24.90	5,970	\$59.70	860.09	979.57	1,839.66
Totals.....	1,131	\$935.66	118	\$109.72	15.2	\$76.00	528	\$26.40	398	\$23.88	172	\$12.04	378	\$56.70	5,970	\$59.70	\$1,300.10	\$1,222.72	\$2,522.82

NOTE.—The cost of the above work compares favorably with that done by contract the current year. All items of labor, except excavation, are charged at the contract price. The balance giving to excavation a cost of \$.827 per cubic yard at 0-8 feet deep and \$.93 per cubic yard 8-12 feet deep as compared with contractor's prices \$.88 and \$.98 respectively.



PRIVATE SEWERS.

Notwithstanding the opening for use of the new sewers constructed in 1901, only 87 buildings have been connected. This work was all done by the city without any appropriation, the owners paying the entire cost as usual.

STATEMENT OF COLLECTIONS.

DR.

To cash on hand Jan. 1, 1902, . . .	\$1 24	
“ actual cost private sewers, 1902, . . .	2,041 42	
“ unsettled accounts, 1896, \$59 89		
“ “ “ 1899, 20 91		
“ “ “ 1900, 34 55		
“ “ “ 1900,		
(Main Street). . .	152 40	
	<hr/>	
	\$267 75	
To sundry repairs, 1902, . . .	9 57	
“ sewer construction, sundry collections . . .	23 00	
To rebates unpaid, 1902, . . .	5 19	
	<hr/>	
	305 51	
	<hr/>	\$2,348 17

CR.

By cash paid Treasurer, account private sewers,	\$2,034 33	
By cash paid Treasurer, account construction,	23 00	
By unsettled accounts, 1900, \$34 55		
“ “ “ “		
(Main Street)	121 64	
By unsettled accounts, 1899, 8 08		
“ “ “ 1896, 59 89		
	<hr/>	
	224 16	
By cash paid rebates 1901 (unpaid) . . .	1 24	
“ “ “ A. A. Day, estimate coll. 1902,	18 00	
By unsettled accounts, 1902,	47 44	
	<hr/>	\$2,348 17

There are 2646 buildings on the line of the sewers, 2115 of which are connected with the sewers, located as appears from the following list:

LIST OF BUILDINGS ON LINE OF SEWERS.

LOCATION.	Number of Buildings.	Connected.	Not Connected.	LOCATION	Number of Buildings.	Connected	Not Connected.
Adams street.....	23	21	2	Day street.....	0	0	0
Ainsworth place.....	2	2	...	Dell avenue.....	18	13	5
Allen ".....	8	8	...	Dill's court.....	5	3	2
Albion street.....	17	8	9	Eastman place.....	2	2	...
Appleton ".....	5	3	2	Eighth street.....	5	5	...
Apthorp road.....	3	3	...	Elliott ".....	3	...	3
Argyle street.....	5	1	4	Elm ".....	16	15	1
Ashland ".....	27	17	10	Ellsworth avenue.....	9	7	2
Ashmont ".....	8	7	1	Emerson street.....	93	83	10
Ashmont park.....	4	2	2	Emerson place.....	6	6	...
Auburn street.....	10	8	2	Essex street.....	33	22	11
Avon ".....	6	6	...	Everett ".....	10	9	1
Bartlett ".....	9	9	...	Fairmount street.....	16	5	11
Batchelder street.....	15	15	...	Farwell avenue.....	2	2	...
Baxter ".....	20	20	...	Faulkner place.....	7	5	2
Beech avenue.....	20	8	12	Faxon street.....	2	1	1
Bellevue ".....	31	30	1	Felton place.....	2	2	...
Belmont street.....	4	3	1	Fields court.....	4	4	...
Berwick ".....	9	8	1	First street.....	33	24	9
Beverly ".....	8	8	...	Fletcher ".....	2	2	...
Boardman avenue.....	12	4	8	Florence ".....	33	28	5
Botolph street.....	15	12	3	Florence avenue.....	4	1	3
Briggs ".....	3	2	1	Foster street.....	92	83	9
Brown ".....	1	1	...	Frances ".....	12	12	...
Brunswick park.....	3	3	...	Franklin ".....	89	74	15
Belmont place.....	4	4	...	Franklin terrace.....	6	5	1
Berwick ".....	1	...	1	Frost avenue.....	6	...	6
Brunswick way.....	1	1	...	Garden street.....	6	4	2
Cass street.....	18	18	...	Gibbons ".....	2	1	1
Cedar park, N. E.....	14	12	2	Glen avenue.....	4	2	2
Cedar park, S.....	5	4	1	Gooch street.....	15	13	2
Central terrace.....	5	5	...	Goss avenue.....	8	3	5
Chestnut street.....	8	7	1	Gould street.....	6	6	...
Charles ".....	7	6	1	Green ".....	44	38	6
Chipman avenue.....	6	2	4	Greenwood street.....	16	13	3
Chestnut park.....	6	5	1	Grove street.....	93	76	17
Chester street.....	11	11	...	Grove place.....	4	4	...
Cherry ".....	4	3	1	Grundy street.....	4	4	...
Circuit ".....	11	11	...	Harvard ".....	6	5	1
Cleveland ".....	28	27	1	Hawes avenue.....	3	1	2
Cliff ".....	2	1	1	Henry ".....	7	2	5
Clifton park.....	2	...	2	Herbert street.....	6	6	...
Corey place.....	1	1	...	Hesseltine avenue.....	0	0	0
Cottage street.....	25	24	1	Heyward ".....	8	1	7
Crescent avenue.....	31	24	7	High street, N.....	9	8	1
Crescent place.....	6	6	...	High " S.....	9	9	...
Crystal street.....	5	4	1	Highland avenue.....	25	21	4
Cutter ".....	9	9	...	Hillside ".....	18	18	...
Damon avenue.....	2	...	2	Holbrook court.....	7	5	2

LIST OF BUILDINGS ON LINE OF SEWERS.—*Continued.*

LOCATION.	Number of Buildings.	Connected.	Not Connected.	LOCATION.	Number of Buildings.	Connected.	Not Connected.
Howard street.....	14	9	5	Pratt street.....	7	7	...
Howie court.....	9	7	2	Prospect ".....	11	4	7
Hurd street.....	9	8	1	Rendall court.....	2	2	...
Ingalls court.....	3	3	...	Richardson road.....	6	1	5
Irving street.....	13	2	11	Rockland street.....	11	8	3
Kimball court.....	3	1	2	Rowe ".....	28	20	8
Lake avenue.....	19	16	3	Russell ".....	13	9	4
Larrabee street.....	1	...	1	Sanford ".....	14	14	...
Larrabee place.....	3	2	1	Sargent ".....	29	25	4
Laurel street.....	20	15	5	Sewall ".....	8	7	1
Lebanon ".....	64	60	4	Sewall Woods road....	2	1	1
Linden ".....	7	2	5	Short street.....	2	2	...
Linden " W.....	6	5	1	South avenue.....	10	6	4
Linden place.....	5	3	2	Stevens place.....	7	7	...
Linwood avenue.....	27	24	3	Summer street.....	16	10	6
Lynde street.....	34	28	6	Summit avenue.....	5	4	1
Main ".....	166	138	28	Tappan street.....	20	19	1
Malvern ".....	20	11	9	Tremont ".....	47	27	20
Maple ".....	31	27	4	Trenton ".....	41	38	3
Melrose ".....	39	27	12	Union ".....	1	1	...
Melrose place.....	6	4	2	Upham ".....	51	45	6
Meridian street.....	12	11	1	Vine ".....	11	10	1
Mt. Vernon street....	8	6	2	Vinton ".....	50	33	17
Mt. Vernon avenue....	7	6	1	Walnut ".....	1	1	...
Myrtle street.....	39	38	1	Walnut park.....	24	8	16
Mystic avenue.....	17	15	2	Warren street.....	9	6	3
Norris court.....	1	1	...	Warwick road.....	5	2	2
North avenue.....	9	6	3	Washington street....	16	10	6
Oakland street.....	16	13	3	Waverly place.....	14	14	...
Olive court.....	1	1	...	West Hill avenue....	10	3	7
Orient avenue.....	11	7	4	Whitman avenue.....	3	3	...
Orient place.....	4	4	...	Whittie street.....	18	17	1
Orris street.....	16	12	4	Willow ".....	10	9	1
Otis ".....	16	15	1	Winter ".....	3	3	...
Parker ".....	7	6	1	Winthrop ".....	18	16	2
Pearl ".....	16	4	12	Winthrop place.....	7	1	6
Perham avenue.....	4	4	...	Woodland avenue.....	12	6	6
Perkins street.....	5	3	2	Wyoming ".....	51	48	3
Pine ".....	5	2	3	Wyoming park.....	1	1	...
Pleasant ".....	21	17	4	York terrace.....	8	6	2
Porter ".....	14	14	...	Youle stree.....	18	15	3
Poplar ".....	8	6	2				
Potter ".....	1	1	...				
				Totals	2646	2115	531

SUMMARY OF ALL PRIVATE SEWERS CONSTRUCTED
TO FEBRUARY 1, 1903.

YEAR.	Total length in miles.	Average cut in feet.	Average cost per foot.	Excavation.		Cost per cu. yd.	
				Earth, cu. yds.	Rock, cu. yds.	Earth.	Rock.
1895	2.096	6.33	\$0.4845	7,736.00		\$0.441	
1896	4.042	6.03	0.4543	14,303.00	190.2	0.377	\$4.50
1897	2.966	6.07	0.3933	10,557.00	35.0	0.387	4.50
1898	2.073	5.56	0.45	6,663.71	101.5	0.444	2.90
1899	4.349	5.83	0.4589	14,684.00	196.7	0.380	4.00
1900	2.480	5.88	0.4609	8,541.00	85.0	0.413	4.50
1901	1.083	5.88	0.4746	2,595.00	135.0	0.479	4.50
1902	0.879	5.80	0.44	2,836.00	25.0	0.390	4.00
Totals	19.968	5.92	\$0.4521	67,915.71	768.4	\$0.414	\$4.11

1. Number of private sewers constructed in 1902...87
2. Number connected with State sewer.....3
(Item 1 includes item 2.)

CLASSIFIED LIST OF ALL BUILDINGS CONNECTED WITH
THE PUBLIC SEWERS, FEBRUARY 1, 1903.

DESCRIPTION.	1895	1896	1897	1898	1899	1900	1901	1902	Totals
Single houses.....	164	362	264	181	400	239	100	70	1,780
Double houses.....	26	47	31	20	37	13	6	15	195
Blocks, stores and tenements.....	17	18	10	5	13	6	3	1	73
Tenement blocks of 4 or more tenants	3	0	11	4	7	0	2	0	27
Churches	3	1	0	0	0	1	0	0	5
Club houses	1	0	0	0	0	0	0	0	1
Public buildings.....	1	5	4	3	0	0	0	0	13
Hospital	1	0	0	0	1	0	0	0	2
Railroad stations.....	1	1	0	2	0	0	0	0	4
Fire stations.....	1	0	0	1	0	0	0	0	2
Mills	0	1	1	1	0	0	0	0	3
Hotels and boarding houses.....	1	1	0	1	0	0	0	0	3
Stables	1	0	1	0	1	0	1	1	5
Private schools.....	0	0	0	0	0	1	0	0	1
Laundry	0	0	0	0	0	1	0	0	1
Totals	220	436	322	218	459	261	112	87	2,115

NOTE. — The 1901 total connections includes Accounts Nos. 1765, 1766, 1906 and 1929 to 2039 each inclusive and omits Accounts Nos. 1979, and 2001 which were cancelled, and Accounts Nos. 1968 and 2038 applied and paid for but work not done.

RECEIPTS AND EXPENDITURES.

Balance Feb. 1, 1902,	\$80 66
Receipts paid to Treasurer,	2,034 33
	<hr/>
	\$2,114 99

Expended :

For stock from sewer construction,	\$694 43
" " " highway division,	24 98
" " " water "	17
" blacksmithing,	34 30
" lumber,	10 52
" concrete repairs,	9 40
" masonry,	6 62
" oil and sundries,	5 95
" labor as per pay rolls,	1,316 31
	<hr/>
	\$2,102 68

Balance in Treasury,	\$ 12 31
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Sewer Maintenance:

To this account is charged the rent of yard, labor cleaning sewers, and the cost of necessary repairs; and I believe upon investigation it will be found that no city in the Commonwealth keeps its sewers cleaner than ours, nor pay so little for maintenance.

RECEIPTS AND EXPENDITURES.

Balance Feb. 1, 1902,	\$338 01
Appropriation,	500 00
	<hr/>
	\$838 01

Expended :

For labor as per pay rolls,	\$467 15
" M. Reardon, injury,	25 00
" " teams, highway division,	41 09
" " water "	11 04
" sundries, H. J. Perry,	1 28
" ½ rent of year, S. E. Benson,	175 00
	<hr/>
	720 56

Balance in Treasury,	\$117 45
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HIGHWAY DIVISION.

Notwithstanding the many adverse comments, the condition of our streets will compare favorably with those of the surrounding municipalities, and it must be apparent to all who judge fairly, that they are improving each year; possibly not so rapidly as might be desired, but much of the work done last year was of a permanent nature, and if the present policy of paving gutters is pursued, and the building of surface drains continued, each year the amount of temporary repairs needed will be diminished, and consequently a larger amount of the annual appropriation can be devoted to permanent improvements.

SUMMARY OF APPROPRIATIONS AND EXPENDITURES.

Stock on hand at yard, as per report	
1901,	\$322 26
Appropriation, highway maintenance,	14,500 00
Appropriation order No. 1903,	5,000 00
Excise tax, Boston & Northern Rail- way,	1,689 06
Transfers for stock and teams used on other divisions,	1,220 63
Receipts, paid Treasurer by W. D. Hunter,	362 29
Receipts collected by Treasurer,	1 62
	<hr/> \$23,095 86
Appropriations:	
Granite crossings,	500 00
Removal of snow and sanding streets,	1,500 00
Paving gutters,	2,000 00
Bridges, culverts and brooks,	2,500 00
Catch-basins and drains,	1,000 00
	<hr/> \$30,595 86

Expended:

Repair of streets and general maintenance (see table 5)	\$13,563 25
Cleaning catch-basins, (see table 5)	429 10
Repairing catch-basins, (see table 5)	380 74
Macadamized streets, (see table 6)	6,177 20
Graveled streets, (see table 6)	1,570 23
Paving streets and gutters, (see table 7)	2,899 03
Surface drains, (see table 8)	1,970 07
Building new catch-basins, (see table 8)	243 25
Granite crossings, (see table 9)	499 23
Cleaning brooks, (see table 10)	830 24
Repair bridges and culverts, (see table 10)	497 36
New culverts, (see table 10)	1,086 38
	<hr/>
	\$30,146 08

Balance in Treasury:

Credit of maintenance,	\$362 99	
Credit of granite crossings,	77	
Credit of bridges and culverts, and brooks,	86 02	449 78
		\$30,595 86

NOTE.—Following is a detail of each item:

TABLE V.
DETAIL OF CHARGES TO MAINTENANCE AND REPAIRS.

LOCATION.	No. days steam roller.	Loads gravel.	Loads crushed stone.	Loads moved.	Block pavings.	Vitrified brick.	Sand and cobles.	Portland cement.	Roseendale cement.	Straight curb.	Curved curb.	Cost of rolling and material.	City teams @ \$1.25 per horse.	Labor as per pay rolls.	Total
Alpine street.....	...	44	12	26	...	...	...	...	...	...	...	\$ 13.40	\$ 12.50	\$ 53.00	\$ 78.90
Belmont street.....	...	138	...	...	...	...	...	...	...	...	...	1.60	11.00	26.00	38.60
Clifton park.....	...	91	...	...	...	...	...	...	...	...	...	...	21.25	74.00	95.25
East street.....	...	52	...	53	...	...	...	...	...	...	...	...	5.75	36.00	41.75
Eighth street.....	18	...	...	...	...	...	...	...	...	1.25	5.00	6.25
Elm street.....	...	12	...	...	...	...	...	...	...	...	...	1.20	3.12	6.87	11.19
Emerson street.....	...	18	24	...	...	...	...	...	...	...	...	18.00	6.25	11.00	35.25
Essex street.....	1,022	500	...	...	16	...	...	...	155.14	9.38	113.66	278.18
Everett street.....	4	...	...	...	...	...	...	...	...	3.00	.94	6.28	6.28
Ferdinand street...	...	12	...	30	...	...	...	...	...	...	...	1.20	6.56	26.06	33.82
First street.....	...	31	...	170	...	...	...	...	...	...	...	3.10	14.69	41.81	59.60
Florence street.....	10	...	...	...	...	...	...	...	...	7.50	2.50	4.00	14.00
Franklin street.....	...	14	57	...	...	...	...	...	...	...	...	42.75	20.00	38.44	101.19
Gooch street.....	18	6	24	13	...	...	...	...	...	...	...	24.87	3.13	20.15	48.15
Green street.....	41	...	...	...	...	...	...	...	...	1.88	14.00	15.88
Greenwood street...	Greenwood	...	...	...	...	...	...	.63	5.00	5.63
Grovestreet.....	2½	107	54	...	...	...	...	...	...	...	...	68.30	46.25	165.93	280.48
Harvard street.	14	...	...	...	...	...	...	...	...	...	...	5.00	1.00	15.00
Highland street.....	...	9	6	...	...	...	...	...	...	...	...	5.40	3.12	9.13	17.65
Howard street.....	4	...	...	...	...	...	...	...	...	3.00	2.50	4.00	9.50
Laurel street.....	1	94	...	...	...	...	...	...	...	...	...	14.40	18.13	58.50	91.03
Lebanon street walk.	...	274	9	54	...	...	...	...	...	...	...	38.53	56.87	177.75	273.15
Linwood avenue.....	...	13	28	...	...	...	...	...	...	...	...	22.30	6.88	19.75	48.93

TABLE V. — Continued.

LOCATION.	No. days steam roller.	Loads gravel.	Loads crushed stone.	Loads moved.	Block pavings.	Vitrified brick.	Sand and cobbles.	Portland Cement.	Roseclate Cement.	Straight curb.	Curved curb.	Cost of rolling and material.	City teams @ \$1.25 per horse.	Labor as per pay rolls.	Total.
Main street.....	2	74	178	...	...	...	...	...	...	...	...	\$179.35	\$ 67.51	\$135.35	\$352.21
Melrose street.....	1	143	6	...	...	...	...	...	...	...	...	9.00	16.88	67.00	92.88
Meridian street.....	...	...	...	...	...	...	2	1	...	16.69	20.94	27.14	.63	21.78	49.55
Mt. Vernon street...	...	42	4	...	...	...	...	...	...	...	...	3.00	7.81	9.00	19.81
Myrtle street.....	...	...	4	15	...	...	...	...	...	...	...	3.00	5.62	17.13	25.75
Otis street.....	...	...	26	...	...	...	...	...	...	...	...	19.50	6.25	10.00	35.75
Orient avenue.....	4	18	8	6	...	...	...	...	...	...	...	7.25	12.19	23.88	43.32
Pearl street.....	...	81	...	...	...	...	...	...	...	...	...	8.10	8.91	35.25	52.26
Porter street.....	1	...	2	209	...	...	...	...	...	5	9.6	16.15	11.25	108.31	135.71
Richardson road...	...	14	...	...	...	...	...	...	...	...	...	1.40	2.50	9.12	13.02
Sylvan street.....	3	...	2	...	...	...	...	...	...	...	...	3.75	2.50	28.62	34.87
Tremont street. ....	...	...	2	...	342	500	3	4	...	...	...	71.92	3.44	72.50	147.86
Upham street.....	...	80	27	...	...	...	...	...	...	...	...	28.25	14.22	87.81	130.28
Vinton street.....	...	10	...	...	...	...	...	...	...	...	...	1.00	2.50	5.68	9.18
Walton park.....	...	16	...	...	...	...	...	...	...	...	...	...	5.00	7.00	12.00
Warren street.....	...	12	...	...	...	...	...	...	...	...	...	...	2.50	4.00	6.50
West Hill avenue...	1	10	...	...	...	...	...	...	...	...	...	6.00	1.25	18.50	25.75
Woodland avenue...	...	24	4	...	...	...	...	...	...	...	...	3.00	14.38	38.44	55.82
Wyoming avenue...	...	...	10	...	...	...	...	...	...	...	...	7.50	1.87	6.00	15.37
Cleaning streets.....	...	...	50	2,287	...	...	...	...	...	...	...	37.50	279.80	2,285.74	2,603.04
Trimming trees.....	...	...	...	...	...	...	...	...	...	...	...	11.37	1.56	54.75	67.68
Removal snow and sanding streets....	...	...	...	...	...	...	401	...	...	...	...	179.88	360.37	1,898.64	2,438.89
Street signs.....	...	...	...	...	...	...	...	...	...	...	...	371.48	.....	70.25	441.73

TABLE VI.
STREETS MACADAMIZED IN 1902.

STREET.	Loads of stone or gravel.	thick- ness.	Location.	Length.	Width.	Sq. yds.	Cost.	Cost per sq. yd.
Tremont street..	{ gr. 664 st. 1,128 }	7 "	Franklin street, south to angle	2,200'	28'	6,844	\$2,513.62	.36
Main street.....	st. 364	5 "	Essex street, " Winthrop street.....	600'	26'	1,733	623.86	.36
Essex street....	st. 322	4½"	Angle " Emerson street... ..	800'	20'	1,777	891.02	.50
Franklin street..	st. 284	6 "	Tremont street, " Vinton st. (so. side only)	950'	12'	1,266	491.52	.39
First street.....	{ gr. 96 st. 272 }	4½"	Gooch st. to Eighth st. and Sewall street, east..	800'	23'	2,044	678.91	.33
Berwick street..	{ gr. 30 st. 32 }	3 "	Wyoming avenue, " Grove street.....	300'	17'	566	110.38	.20
Gooch street....	{ gr. 42 st. 287 }	5 "	Upham street, " E. Foster street.....	650'	23'	1,661	420.87	.25
Bellevue avenue.	{ gr. 21 st. 157 }	4 "	Hillside avenue, " Porter street.....	300'	33'	1,100	305.59	.28
Ashland street..	{ gr. 38 st. 60 }	5½"	Highland avenue, " Richardson road.....	200'	20'	444	141.43	.32

STREETS GRAVELLED IN 1902.

STREET.	Loads of gravel.	thick- ness.	Location.	Stem roller used days.	Length.	Width.	Sq. yds.	Cost.	Cost per sq. yd.
Boardman avenue.	604	4½"	Main street, " Damon avenue	9½	1,100'	26'	3,177	\$422.00	.13
Foster street, east.	202	5 "	Gooch street, East, " Damon avenue	5	400'	23'	1,022	233.00	.22
Frost avenue.....	168	3 "	Hawes avenue, " Heywood ave.	1¾	450'	26'	1,300	102.40	.08
Hawes avenue....	274	4½"	Boardman avenue, " Morgan avenue	....	500'	26'	1,444	131.00	.09
Spring street.....	488	12 "	Briggs street, " Meridian street	2¾	400'	26'	1,155	383.61	.33
Beech avenue.....	244	2 "	Lebanon street,	5½	1,000'	26'	2,888	298.15	.10

TABLE VII.
GUTTERS PAVED IN 1902.

STREET.	Side.	Location.	Kind.	Length in feet.	Width.	Sq. yds.	Cost.	Cost per sq. yd.
Ashtland street.....	E. & W.	Richardson road,	mixed	525.0	3.72	218.60	\$218.29	\$1.00
Bartlett street.....	West	Relay	cobble	65.0	3.00	21.60	7.63	.35
Beech avenue.....	N. & S.	Lebanon street, East, to Fairmount street...	"	1,044.0	4.00	464.00	226.74	.49
Clifton park.....	E. & W.	Woodland avenue, South,.....	"	177.0	4.92	96.80	104.13	1.07
Crescent avenue	East	Ashmont street, South, to C. B.	"	563.0	4.00	250.00	413.53	1.65
First street.....	North	Gooch street, to Eighth street.....	"	241.0	4.25	128.00	77.13	.61
Franklin street.....	.....	At Franklin Square.....	block	248.0	3.00	82.70	66.84	.81
"	North	Cliff street, East.....	cobble	582.0	4.00	258.60	181.61	.70
"	South	Lebanon street, East.....	mixed	685.0	3.25	247.30	126.11	.51
Grove street.....	North	Main street and around Standpipe.....	block	.....	.....	71.85	132.60	1.84
"	North	East of Gooch street.....	cobble	253.0	3.00	84.30	43.07	.51
Laurel street.....	West	At Washington School.....	block	.....	.....	8.80	23.28	2.65
Lebanon street.....	East	Park street,	cobble	176.0	4.50	88.00	60.38	.69
" .....	.....	to Appleton street.....	"	{ 469.0	3.00 }	162.00	97.77	.60
W. Linden street.....	North	Main street,	"	{ 25.0	2.00 }	.....	.....	.....
Main street.....	.....	Relay (tracks at Franklin Square).....	block	.....	.....	35.00	10.25	.29
"	East	Green street,	cobble	506.0	3.00	168.60	82.70	.49
"	East	to Reading Hill avenue	mixed	391.5	3.00	130.50	146.39	1.12
Meridian street.....	.....	Lynde street,	cobble	.....	.....	7.50	18.56	2.48
Orris street.....	North	Relay at Grove street,	"	375.0	4.00	165.50	148.50	.81
Poplar street.....	West	Warren street, West,	"	148.0	4.50	74.00	57.06	.77
Porter street.....	South	Prospect street,	mixed	769.0	4.15	354.50	219.50	.61
Reading Hill avenue.....	South	School street	cobble	52.0	4.00	23.10	23.70	1.03
Swain's Pond avenue.....	.....	At Main street, .....	"	.....	.....	25.00	11.25	.45
Tremont street.....	East	Relay of Crossing at Swain's Pond,	mixed	840.0	4.00	373.30	296.26	.79
Woodland avenue.....	South	Melrose street, South, to brook	cobble	360.0	4.54	181.60	105.75	.58
		City line, South,						
		Clifton park.....						

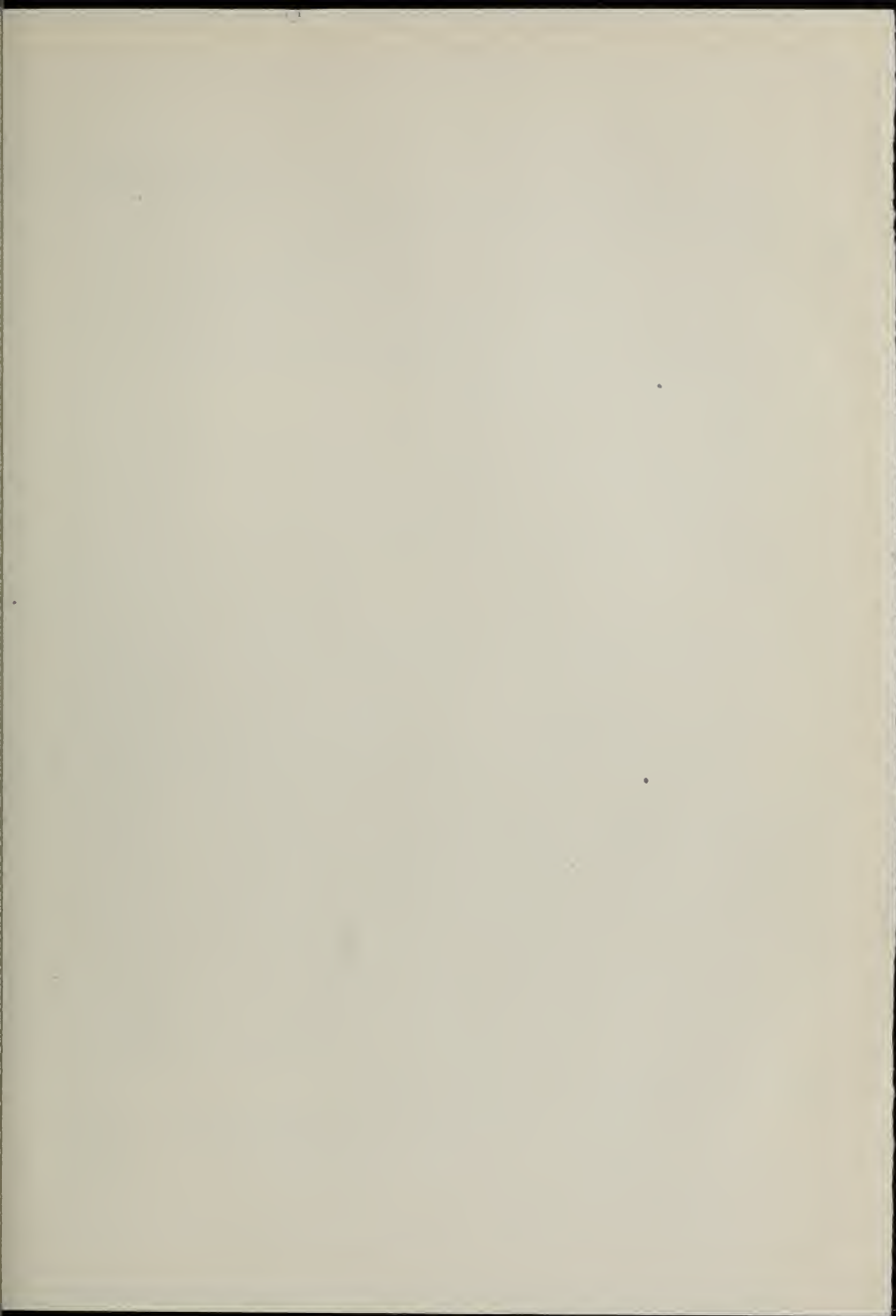


TABLE V
CATCH BASINS

LOCATION.
Ashland street west side between Ellsworth avenue and Franklin.....
Essex street corner of Vine street.....
Essex street Goss' Driveway.....

SURFACE DRAINS

STREET.	PIPE										
	Size in inches.										
	4	5	6	8	10	12	15	16	18	20	
Franklin St., Main St. to Howie court.....		10		4			256				
Lebanon St., Washington School to Grove St.				6		152					
*Grove St., Gooch St. to Larrabee St.....		26		124		124	678				
†Grove St., at B. & N. St. R. R. tracks..											
Totals.....		36		134		276	934				

*\$270.47 labor in digging up old pipe is balanced
by credit for stock returned to yard viz:

Total labor,	\$738.78
Credit by stock,	270.47

Total labor charged to this work.....	\$468.31
---------------------------------------	----------

†These catch basins built with M. H. frames and gratings.

I.

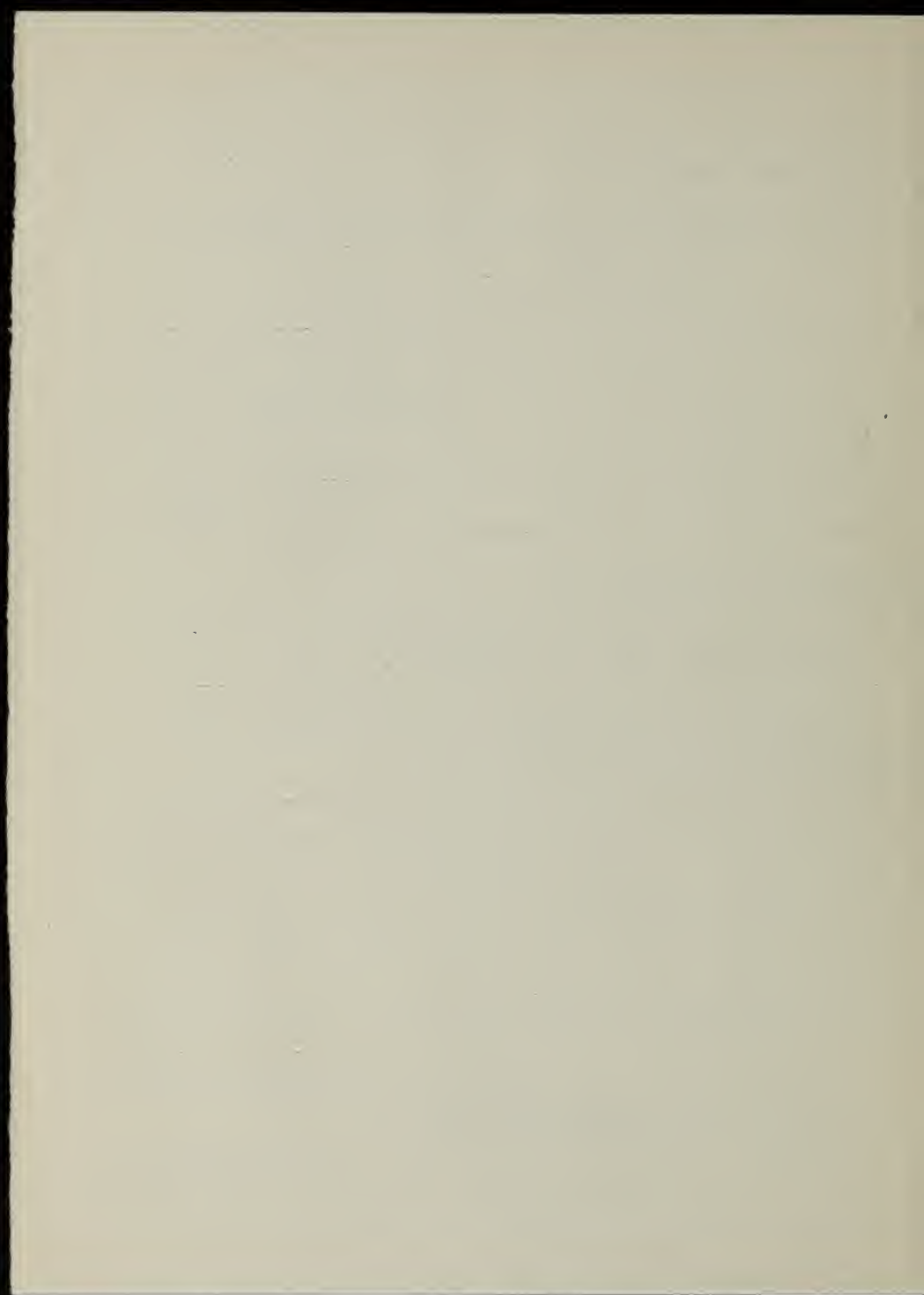
BUILT IN 1902.

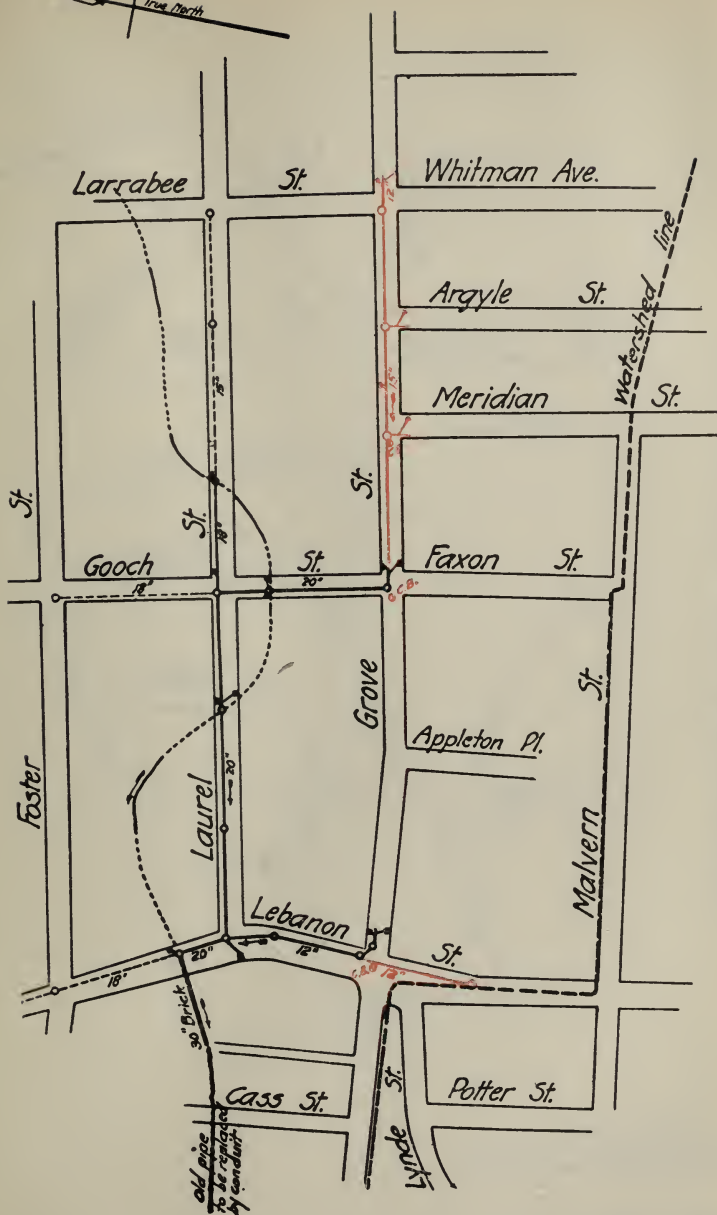
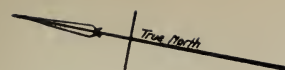
	Material.		Discharge.	Cost.
	Catch basin.	Cover.		
.....	Brick	Granite	Brook	\$75.58
.....	"	"	Essex street drain	83.83
.....	"	"	" " "	83.84
				\$243.25

LAI D IN 1902.

		Conduit.		Catch basins.		Man holes.		Cement.		Exca., cu. yds.		Cost.		
Ys.	Bends.	Lin. ft.	Cu. yds. masonry.	Sets.	Cu. yds. brick work.	Frame and cover.	Cu. yds. brick work.	Portland bbls.	Rosendale bbls.	Earth.	Rock.	Labor.	Material.	Total.
2	4	...	...	...	...	1	1.60	5	...	164	10	\$153.78	\$159.64	\$313.42
...	...	...	...	...	...	1	1.80	6	...	98	25	186.59	88.95	275.54
7	8	...	...	8	21.91	3	5.40	43	...	630	...	468.31	912.80	1,381.11
...	...	...	...	3	8.74	...	...	6	...	...	...	27.43	59.25	86.68
9	12	...	...	11	30.65	5	8.80	60	...	892	35	\$836.11	\$1,220.64	\$2,056.75

NOTE.—Paid from Catch Basins and Drains, \$1,970.07
 " " General Maintenance and
 to be refunded by R. R. Co. . . . 86.68
 \$2,056.75



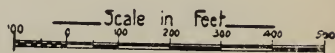


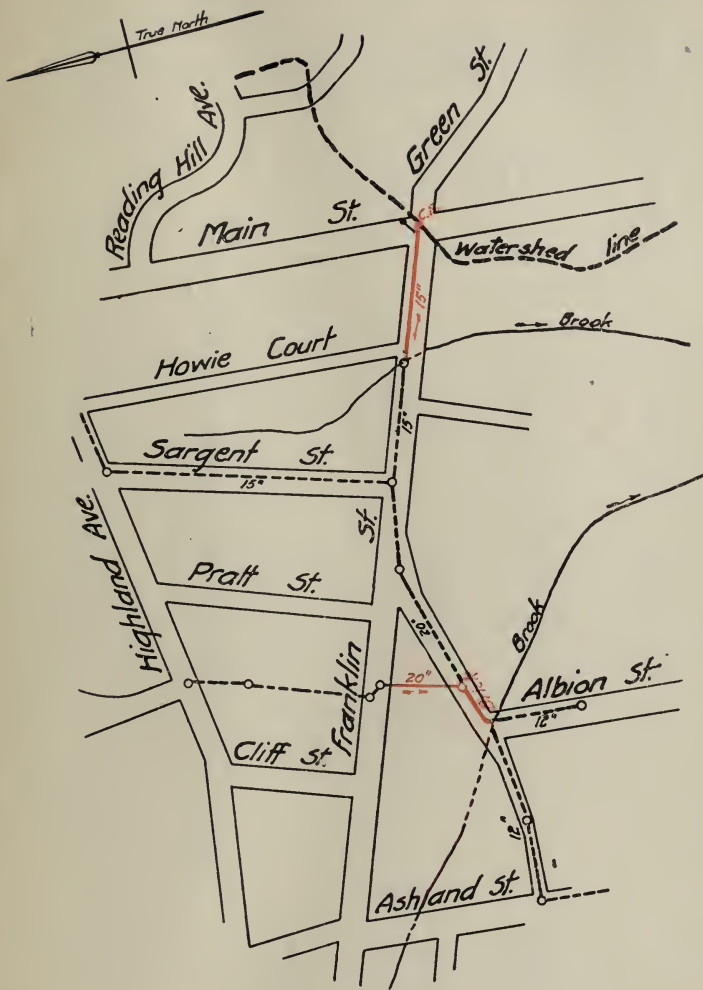
Laurel St. Drain

Drains constructed in 1901 shewn thus

Drains constructed in 1902

Proposed future extensions





Greenwood St. Brook Drainage Area

Drains constructed in 1902 shown thus

Proposed future extensions

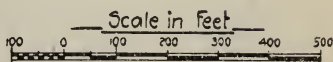
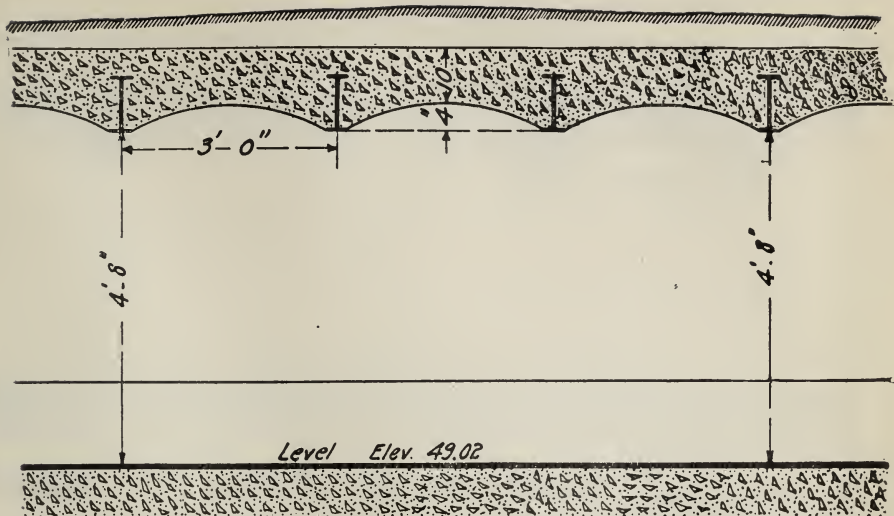
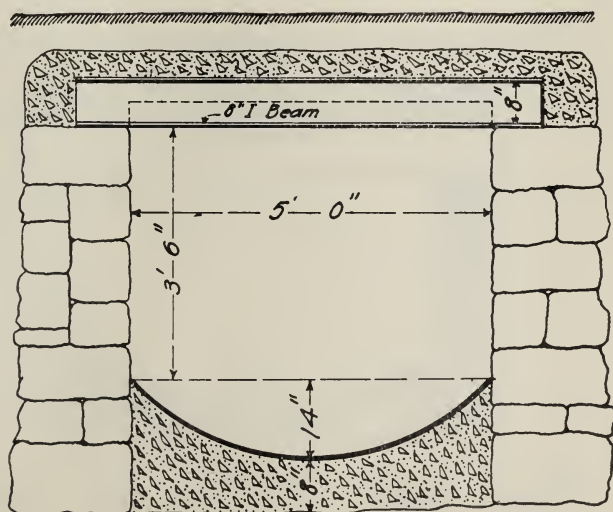


TABLE X.
DETAIL OF COST OF BRIDGES AND CULVERTS, AND BROOKS.

[illegible]

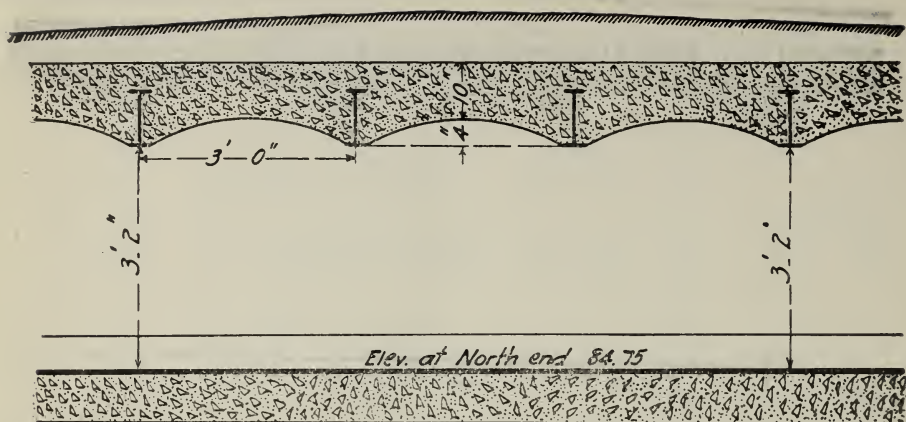


Longitudinal Section of part of Melrose St. Culvert

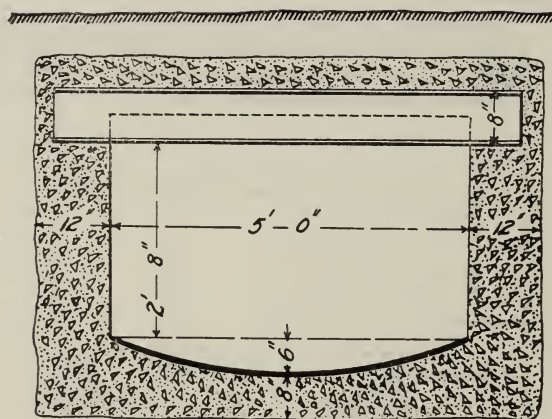


Cross-Section of Melrose St. Culvert

Scale: 2 ft. = 1 in.



Longitudinal Section of part of Frost Ave. Culvert



Cross-Section of Frost Ave. Culvert

Scale: 2 ft. = 1 in.

In addition, I submit the account with the stable, crusher and steam roller, which are kept to show the expense and earnings of each. To them is charged all expense of running and maintaining, and they are given credit for the value of their product which is included and reckoned in the foregoing details of cost.

The stable is given credit for the actual number of days each team was used, at \$1.25 per horse, and shows a deficiency of only \$36.10, notwithstanding that one new double team complete was purchased at a cost of \$695.00.

The roller is given credit for each day actually used, at \$5.00 per day, and shows a deficiency of \$386.11, which is due to extraordinary repairs, amounting to \$599.53.

The crusher is given credit for the stone used, at the rate of 75 cents per single load, and shows a gain of \$401.07, and the materials now on hand. All of these accounts are balanced into the general maintenance account as will appear upon examination.

Stable Account.

DR.

To amount paid for hay and grain,	\$1,467 72
“ “ “ “ care of stable,	112 00
“ “ “ “ rent,	244 00
“ “ “ “ new double cart,	160 00
“ “ “ “ repair to carts and sleds,	94 44
To amount paid for new harness, blankets and repairs,	135 95
To amount paid for shoeing, McBeth & Co.,	187 33
To amount paid for sundries,	30 69
“ “ “ “ medicine and atten- dance,	33 35
To amount paid for pair horses, Wm. Nokes & Co.,	450 00
Amount carried forward,	\$2,915 48

Amount brought forward, \$2,915 48

CR.

By amount charged to streets and
other divisions, for horses at \$1.25
per horse per day, see detail
reports, 2,879 38

To general maintenance account, \$36 10

Steam Roller Account.

Amount expended for repairs, as per
pay rolls, \$156 87
Amount paid F. L. Trefethen repairs, 278 43
Amount paid for coal and wood,
120,327 lbs., 389 34
Amount paid for new parts and freight
on same, 321 10
Amount paid for oil and sundries, 22 97

\$1,168 71

CR.

By amount charged to different streets
and accounts, 145 days @ \$5 per day, \$725 00
By 4,400 lbs. coal to relief committee, 17 60
By coal used by Medford roller and
charged to Tremont street, 40 00
782 60

To maintenance account, \$386 11

Stone Crusher and Ledge.

To stock on hand Feb. 1, 1902 as per
report, \$752 30
To paid for coal, 35,865 lbs., 217 15
" " " oil, 59 25
" " " castings, new parts and
freight, 161 27
To paid for powder, 144 97
" " " sundries, 4 35
" " " labor and teams as per
pay rolls, 1,905 54

Amount carried forward, \$3,244 83

Amount brought forward,	\$3,244 83
CR.	
By 4,605 loads crushed stone to streets,	\$3,453 75
" 231 loads cobbles and sand to streets,	115 50
" 905 block paving to streets,	50 95
" curbing and flag stones to streets,	21 35
" gravel,	3 80
" powder,	55
	<hr/>
	\$3,645 90
To credit highway maintenance,	401 07
	<hr/>
	\$3,645 90

On hand at Crusher.

200 loads dust,	\$150 00
75 loads No. 4 stone,	56 25
200 loads broken stone ready for crusher.	

SUMMARY OF HIGHWAY IMPROVEMENTS TO DATE.

Streets macadamized,	5.2 miles
Gutters paved,	4.6 "
Brick crossings,	3
Stone crossings,	75
Concrete crossings,	106
Straight curbing,	4.1 miles
Curved curbing,	1776.0 feet
Granolithic walks,	510.0 "
Brick walks,	.7 miles
Concrete walks,	33.6 "

SURFACE DRAINAGE.

The two principal outlets for our surface water are Spot and Ell Pond Brooks. Rights have been taken in both of these for the purpose of facilitating the flow and the prevention of obstructions. These rights were taken 30 years ago, and while probably adequate at that time, are insufficient at the present; this is more especially true of Spot Pond

Brook, which owing to the increased amount of water discharged into it on account of the improvements by the Metropolitan Water Board, is not only a nuisance but a menace to health.

Numerous conferences have been held with Malden and with the Metropolitan Water Board, and as a result an Act was passed, Chapter 112 of the Resolves of 1902, authorizing and directing the Metropolitan Water Board to investigate the whole question and report to the General Court not later than January 15, 1903. This report has been made (House No. 1087) and submitted with recommendations, which, if carried out, will no doubt remedy the existing evil.

Ell Pond Brook is entirely within the control of the city and should be widened, deepened and have its lines more definitely defined.

In my request to the Mayor for the annual appropriations was the item "Surface Drainage — \$25,000.00 for new drains and catch-basins," which was omitted from the Budget; but the Legislature was petitioned for authority to borrow \$100,000.00 for this purpose.

The petition was granted, and an Act passed, Chapter 445 of 1902.

The Board of Aldermen, acting under authority of this act, on June 9, 1902, passed Order No. 1,657, appropriating \$20,000.00, but owing to a supposed opposition to the measure 50 or more citizens petitioned to have the subject of issuing bonds submitted to the voters, which was done at the annual election held in December, when the measure was emphatically endorsed and the \$20,000.00 appropriated became available, but not in time to give relief this year.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Balance from 1901 account,	.	.	\$514 31
Bond issue, Order No. 1,657.	.	.	20,000 00
			<hr/>
Amount carried forward,	.	.	\$20,514 31

Amount brought forward, \$20,514 31

EXPENDED.

Norris & Co., grading,	\$21 60		
Bugbee & Barrett, dressing,	2 70		
Labor as per pay rolls,	18 50		
Teaming,	63		
	<hr/>	\$43 43	
F. E. Ellis, lumber to yard,	\$12 93		
Expanded Metal Co.,	3 13		
D. H. Woodward, for forms,	30 90		
Teaming sand from Wake- field,	8 00		
Labor testing concrete arches,	28 25		
	<hr/>	83 21	
		<hr/>	126 64
			<hr/>
			\$20,387 67

Wells Drain.

This title is applied to the water course running just west of Pratt Street from Highland Avenue across Franklin Street to Albion Street, thence into the brook. The portion south of Franklin street is covered, or of pipe, and has for many years overflowed the land of George T. Wells, who finally brought suit for damages. This suit was settled by the Mayor and City Solicitor, one of the considerations being that the city should entirely rebuild the drain and cover it the entire distance through land of Wells, to accomplish which the Board of Aldermen passed the following order:

IN BOARD OF ALDERMEN, Oct. 27, 1902.

OFFERED BY ALDERMAN FERNALD.

Be it ordered: That acting under the provisions of law applicable thereto, a main drain, either open or covered, shall be laid or constructed in the following described right of way as hereinafter set forth, viz:

Beginning at a point on the northerly side of Albion Street at the dividing line between land of George W. Woodland and land of the Melrose Highlands Baptist Society, said point being one hundred

seventy-four and ninety-seven one hundredths (174.97) feet more or less westerly from the junction of the southerly line of Franklin Street with the northerly line of Albion Street measuring along the said northerly line of Albion street; thence along said dividing line between land of George W. Woodland and the Melrose Highlands Baptist Society north, $16^{\circ} 25' 37''$ east one hundred two and fifty-eight one hundredths (102.58) feet to the southerly line of Franklin Street, said point being four hundred fifty-six and ninety-five one hundredths (456.95) feet from Ashland Street, measuring along the southerly line of Franklin Street; thence across Franklin Street to a point ten (10) feet east of the dividing line between land of Lucy A. Wells and Daniel E. Caswell, one hundred and eighteen (118) feet from Pratt Street measuring along the northerly line of Franklin Street; thence parallel to, and ten (10) feet from, said dividing line between land of Lucy A. Wells and Daniel E. Caswell north $20^{\circ} 26' 17''$ east one hundred (100) feet to land of Dexter Pratt; thence in the same course across land of Dexter Pratt parallel to and ten (10) feet from the dividing line between land of said Pratt and Thomas W. Ripley two hundred twenty-five and three tenths (225.3) feet to the southerly line of Highland Avenue.

The above described line is the easterly line of a taking which is ten (10) feet wide.

The above description is intended to conform to plans drawn by W. Dabney Hunter, Eng'r. and Supt. of Public Works, hereto annexed and made a part of this order; that the Treasurer be and hereby is given authority to issue note or notes of the City of Melrose not exceeding in the aggregate the sum of \$1,315.00 payable in one year from the date thereof at a rate of interest not exceeding 5 per cent. per annum. It is hereby adjudged that the said drain is a necessity for the public convenience and health; that the city of Melrose, acting under the authority of the Public Statutes, and also under all other provisions of law and every other power it hereto enabling, has taken and hereby does take for the purposes of constructing a main drain in the private lands as hereinbefore specified for the sole use and benefit of the said City of Melrose, the following lots and parcels of land situated in said Melrose, in said County of Middlesex, viz:

A certain lot situated on the northerly side of Albion Street, supposed to be owned by George W. Woodland, bounded and described as follows:

Beginning at a point on the northerly line of Albion Street at the dividing line between land of George W. Woodland and the Melrose Highlands Baptist Society, said point being one hundred seventy-four and ninety-seven one hundredths (174.97) feet westerly from the junction of the northerly line of said Albion Street with the southerly line of Franklin Street, measuring along the said northerly line of Albion Street; thence north $16^{\circ} 25' 37''$ east along said dividing line one hundred two and fifty-eight one hundredths (102.58) feet to Franklin St. ;

thence north $68^{\circ} 58' 13''$ west along the southerly line of Franklin Street ten and three hundredths (10.03) feet; thence south $16^{\circ} 25' 37''$ west eight (8) feet; thence south $73^{\circ} 34' 23''$ west four (4) feet; thence south $16^{\circ} 25' 37''$ west fifty (50) feet; thence north $73^{\circ} 34' 23''$ west four (4) feet; thence south $16^{\circ} 25' 37''$ west fifty-one and forty-seven one hundredths (51.47) feet; thence north $75^{\circ} 4' 17''$ east eleven and seventy-one one hundredths (11.71) feet to the point of beginning, containing 860.27 sq. ft. more or less.

A certain other lot situated on the northerly side of Franklin Street, supposed to be owned by Lucy A. Wells, bounded and described as follows:

Beginning at a point on the northerly side of Franklin Street ten (10) feet easterly from land of Daniel E. Caswell one hundred eighteen (118) feet westerly from the westerly line of Pratt Street measuring along the northerly line of Franklin Street; thence north $20^{\circ} 26' 17''$ east one hundred (100) feet to land of Dexter Pratt; thence north $68^{\circ} 58' 13''$ west along said Pratt's land ten (10) feet to the common corner of land of Lucy A. Wells, Dexter Pratt, Thomas W. Ripley and Daniel E. Caswell; thence along the dividing line between land of Lucy A. Wells and Daniel E. Caswell, south $20^{\circ} 26' 17''$ west one hundred (100) feet to Franklin Street; thence along the northerly line of Franklin Street south $68^{\circ} 58' 13''$ east ten (10) feet to the point of beginning, containing 1,000 sq. ft. more or less.

A certain other lot situated on the southerly side of Highland Avenue, supposed to be owned by Dexter Pratt, bounded and described as follows:

Beginning at a point on the southerly line of Highland Avenue, at the dividing line between land of Thomas W. Ripley and Dexter Pratt, and one hundred seventy-seven and eighty-five one hundredths (177.85) feet easterly from the easterly line of Cliff Street measuring along the said southerly line of Highland Avenue; thence south $20^{\circ} 26' 17''$ west two hundred twenty and sixteen one hundredths (220.16) feet along said dividing line between land of Dexter Pratt and Thomas W. Ripley to the common corner between land of Dexter Pratt, Thomas W. Ripley, Daniel E. Caswell and Lucy A. Wells; thence along the dividing line between land of Lucy A. Wells and Dexter Pratt south $68^{\circ} 58' 13''$ east ten (10) feet; thence north $20^{\circ} 26' 17''$ east two hundred twenty-five and three tenths (225.3) feet to the southerly line of Highland Avenue, thence along southerly line of Highland Avenue south $83^{\circ} 14' 37''$ west eleven and twenty-four one hundredths (11.24) feet to the point of beginning, containing 2,227.3 sq. ft. more or less.

All of the foregoing descriptions are intended to conform to plans drawn by W. Dabney Hunter, Engr. and Supt. of Public Works, hereto attached and made a part of this order; reserving, however, to the owner or owners of the different parcels of which said land forms a part, their heirs and assigns, the right to pass and repass on foot and

IMPROVED SURFACE DRAINAGE CONSTRUCTED TO JANUARY 31, 1903.

LOCATION.	Size in inches.	Length in feet.	Material.	No. of			Date Built
				M	H	C B	
Adams street north from Russell street.....	12	30	Akron pipe...	...	2		1901
Ashland street west side between Ellsworth avenue and Franklin street.....					1		1902
Bellevue avenue south from Linden street....	15	27	Akron pipe...	...	2		1901
Bellevue avenue northeast corner Emerson st.					1		1900
Beech avenue west from Fairmount street....	18	62	Akron pipe...	1	4		1901
Berwick street east side near Wyoming avenue					1		"
Botolph street east from West Hill avenue....	15	68		1	2		"
Boardman avenue at Bennett's Pond brook...	60x38	44	con'r't culvert	...			"
Cedar Pk. & B. & M. R. R., Vinton to Essex st.	20	117	Akron pipe...	...			"
" " " " " " " "	20	120	Cast iron pipe	...			"
" " " " " " " "	16	284	" " "	2	3		"
" " " " " " " "	15	24	Akron pipe...	...			"
Essex street north from Vine street.....	20	144	" " "	2			"
Essex street corner of Vine street.....					1		1902
" " at Goss' driveway.....					1		"
Franklin street, Main street to Howie court...	15	256	Akron pipe...	1			"
Frost avenue, culvert at brook.....	38x60		Concrete	...			"
Green street at brook, north from Linden street	30	136	Br'k & cement	3	4		1901
" " " " " " " "	20	20	Akron pipe...	...			"
" " " " " " " "	12	36	" " "	...			"
Grove street in B. & N. R. R. tracks.....					2		"
" " at Lebanon and Gooch streets...	15	30	Akron pipe...	...			"
" " " " " " " "	12	70	" " "	2	4		"
" " Gooch street to Larrabee street..	15	678	" " "	3	8		1902
" " (junction with side streets).....	12	124	" " "	...			"
" " between tracks B. & N. St. R. Ry.				3	3		"
Gooch street from Laurel to Grove street....	20	306	Akron pipe...	1	2		1901
" " " " " " " "	12	16	" " "	...			"
Hillside avenue at No. 64.....					1		"
Laurel street from Lebanon street to Sta. 850..	20	642	Akron pipe...	4	4		"
" " " " " " " "	18	200	" " "	...			"
" " " " " " " "	12	8	" " "	...			"
" " southeast corner Sixth street...					1		1900
Lebanon street south of Upham street.....					2		"
" " from Grove st. to Right of Way	24	82	Akron pipe...	4	2		1901
" " " " " " " "	12	246	" " "	...			"
" " Washington school to Grove st.	12	152	" " "	1			1902
Linden street from Green street to Bellevue av.	30	245	Brick & con'r't	1			1901
Main street at Franklin street.....					1		1900
" " near West Linden street.....		60	Con'r't culvert	...			"
" " " " " " " "	15	90	" " "	1	3		"
" " in R. R. tracks at Dix pond.....					2		1901
" " " " " " " "					2		"
Melrose street, culvert at brook.....	56x60		Con'r't & stone	...			1902
Pearl street at Bennett's Pond brook.....	60x38	41	Con'r't culvert	...			1901
Pleasant street at Gould street.....					1		"
Porter street at Fletcher street in R. R. tracks					1		"
Right of Way, west from Lebanon near Laurel st	30	137	Brick	...			"
Right of Way from Botolph to Franklin streets	15	357	Akron pipe...	2	1		1898
Russell street from Adams to Trenton street..	15	394	" " "	2	1		1901
Tremont street at low point.....					1		"
Trenton st. from Russell st. to Spot pond br'k	15	176	Akron pipe...	...			"
Trenton street from Washington st. to brook..	12	150	" " "	1	1		"
Upham street at southwest corner Dell avenue	15	6	" " "	...	1		"
Vinton street.....	12	12	" " "	...	1		"
West Hill av. from Botolph st. to Chaska av...	12	364	" " "	2	4		"
Winthrop street at low point.....	12	4	" " "	...	2		"
Wyoming avenue east from B. & M. R. R.	15	28	" " "	...	1		"

IMPROVED SURFACE DRAINAGE CONSTRUCTED TO
JANUARY 31, 1903.—*Continued.*

Summary.—1,212 ft. 12 inch Akron pipe. 2,134 ft. 15 inch Akron pipe. 284 ft. 16 inch iron pipe. 262 ft. 18 inch Akron pipe. 1,229 ft. 20 inch Akron pipe. 120 ft. 20 inch iron pipe. 82 ft. 24 inch Akron pipe. 518 ft. 30 inch circular conduits, brick and concrete. 37 man-holes, 75 catch-basins, 5 culverts, concrete and I beams.

NOTE.—9 of the above catch basins are built in the tracks of the B. & N. St. R. R. Co.

SIDEWALKS.

In my last report under this head, I called attention to the provisions of the city ordinance relative to sidewalks, with recommendations (see pages 109 and 110). The Board of Aldermen have acted favorably on one of them, and I wish again to call attention to the provisions of Chapter 21, Section 2, and to Chapter 25, Section 19, of the ordinances, together with my recommendations of the previous year, with this addition: that within certain sections of the city, or that on certain particular streets (to be enumerated in the ordinance) the material to be used be specified, or particularly designated. My reason for this is that many applicants prefer brick, but feel that their neighbors either have, or probably would have, concrete, and would rather forego their preference in favor of brick in order to conform with surrounding walks.

Two new continuous walks ordered in 1901 have been completed; the curbing ordered on Main street has been set; 31 continuous walks constructed as applied for, and many of the old walks have been repaired.

Contracts.

Advertisements for furnishing curbstone and for laying concrete were inserted in the local papers, and bids received and opened as follows:

CANVASS OF BIDS FOR FURNISHING GRANITE CURBING
AND FLAG-STONES, OPENED MAY 3, 1902.

	S. & R. J. Lombard, Boston, Mass.	F. E. Newhall, Wakefield, Mass.	J. J. Cuddihy, Boston, Mass.	Granite State Granite Co., W. Townsend, Mass.
Straight curb, 7 inch, per lin. ft.	\$.55	\$.58	\$.55	\$.51
Straight curb, 6 inch, per lin. ft. ....	.53	.56	.55	.49
Granite block, 2 ft. radius, each.....	2.50	3.50	....	2.40
Granite block, 3 ft. radius, each.....	3.75	5.00	....	2.75
Granite flag-stones, 18 inch, per lin. ft.....	.65	.58	....	.55
Granite flag-stones, 20 inch, per lin. ft.....	.65	.62	....	.60
Granite flag-stones, 24 inch, per lin. ft.....	.74	.75	....	.65
North River flag-stones, 18 inch, per lin. ft..	....	....	.52	.78
North River flag-stones, 20 inch, per lin. ft..	....	....	.58	.82
North River flag-stones, 24 inch, per lin. ft..	....	....	.75	.94

CANVASS OF BIDS FOR LAYING CONCRETE SIDEWALKS,
CROSSINGS AND GUTTERS, AND FOR DOING ALL PATCHING,
REPAIRING, AND TOP-DRESSING TO THE SAME,
OPENED MAY 3, 1902.

	C. L. Farnsworth, Ayer, Mass.	C. L. Hoffman, Melrose.	Norris & Co., Melrose.	Robert Philpot, Melrose.
New concrete walks (3 coats) per sq. yd.....	\$.54	\$.50	\$.34	\$.45
New concrete crossings (4 coats) per sq. yd..	.60	.60	.35	.60
New concrete gutters (4 coats) per sq. yd....	.60	.60	.35	.60
Repairing or patching (4 coats) per sq. yd..	.62	.60	.35	.75
Repairing or patching (3 coats), per sq. yd..	.54	.50	.34	.50
Repairing or patching top dressing, per sq. yd.	.30	.30	.20	.30

The appropriation for sidewalks was made under three separate heads, viz:

- Repair of present walks.
- New individual walks.
- New continuous walks.

Repair of Present Walks.

The appropriation for this work was drawn upon largely to repair walks where parties applied for a curbstone, and consequently many bad places in old walks complained of could not receive the attention that they deserved, but nevertheless the walks are steadily improving.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Balance Feb. 1, 1902,	\$ 106 66	
Appropriation,	1,000 00	
" Sept. 10, Order No. 1872,	500 00	
	<hr/>	\$1,606 66
Expended:		
Resetting curb, Laurel St., labor and teams,	\$13 61	
Resetting curb, Grove St., labor and teams,	11 50	
Repair to brick walks, brick, \$ 5 45		
Labor and teams,	17 67	
	<hr/>	23 12
Repair Main St., stock,	\$4 98	
Labor and teams,	7 50	
	<hr/>	12 48
Inspection of concrete, as per pay rolls	127 50	
Concrete work, Norris & Co., contract	1,397 19	
Repair Reading Hill Ave., labor and teams,	2 81	
	<hr/>	1,588 21
	<hr/>	
Balance in treasury,		\$18 45

New Individual Walks.

Walks have been constructed, or curbing set, in front of 31 estates, 16 of which were for new walks, and 15 for curbing and rebuilding old walks, the abutters paying for one-half of the improvements.

Where curbing was set in front of estates already provided with a concrete walk, it was usually necessary to rebuild the entire walk, and as by statute we cannot assess for this work, it has been considered as "repair to present walks," and paid for from the appropriation for that purpose.

STATEMENT OF COLLECTIONS.

DR.

To total amount assessed,	\$1,355 49	
" estimate paid by Robert Philpot,	37 57	
" uncollected assessment of 1901,	14 43	
" rebates unpaid,	1 70	
	<hr/>	\$1,409 19

CR.

By cash paid treasurer,	\$1,408 69	
" " " 1901 rebate (R. Philpot)	50	
	<hr/>	\$1,409 19

INDIVIDUAL SIDEWALKS.

No.	Abutter.	Location.	Cost.	Assessed.
35	Alfred E. Lewis	103 Ashland street.....	\$108.07	\$52.43
36	Clinton White	106 Bellevue avenue.....	302.29	127.21
37	Angus MacDonald	Spring street.....	227.60	118.65
38	John O'Rourke.....	418 Lebanon street.....	62.14	28.39
39	Mark H. Warren.....	108 First street.	69.07	34.54
40	A. C. Marie Currier..	964-984 Main street	198.91	100.53
41	Lewis H. Curtis.....	32 Wyoming avenue	*39.73	19.87
42	G. P. Anderson.....	Crystal street	108.44	54.22
43	C. H. Isburgh.....	31 Vinton st. cancelled. ....	.....	.....
44	M. F. Eastman.....	478 Lebanon street.....	58.29	29.15
45	G. H. Belknap.....	49 Laurel street.....	53.16	26.58
46	S. E. Benson.....	34 Cedar pk. cancelled..	.....	.....
47	E. F. Leet.....	34 Cedar pk. cancelled..	.....	.....
48	E. H. Goss	26 Cedar pk. cancelled..	.....	.....
49	B. & M. Railroad....	W. Foster street.....	41.26	20.63
50	Prov. Coop. Bank....	960 Main street	44.13	22.07
51	H. B. Hitchins, Tr...	956 Main street	44.14	22.07
52	Augusta S. Craig	32 Crescent avenue.....	43.76	21.88
53	Dr. L. F. Wentworth.	19 Bartlett street	42.07	21.04
54	Alfred J. Knight.....	12 Bartlett street	89.53	36.78
55	B. & M. Railroad	W. Emerson street ..	83.89	41.95
56	W. A. Goodno.....	35 Winthrop street.....	32.82	14.93
57	R. H. Sircom & Co...	Main st. & Wyoming av	249.64	122.57
58	L. A. Dow	Upham & Eighth sts.	128.30	64.15
59	James G. Bowden.....	22 Vinton street.....	161.04	74.87
60	Henry Lynde.....	24 Crescent avenue.....	43.17	21.59
61	Geo. H. Stevens	70 Trenton street.....	61.59	26.11
62	Freeman Crosby	72 Trenton street.....	40.20	16.88
63	B. & M. Railroad....	Wyoming avenue.....	261.89	147.58
64	Henry Lynde.....	28 Crescent avenue.....	43.88	21.94
65	Arthur S. Davis	91 Crescent avenue.....	42.93	21.47
66	Robert Philpot	76 Dell av. work not done .....	.....	.....
67	U. B. Twitchell.....	32 Frances street.....	21.13	10.57
68	E. M. Munyan.....	69 Gooch street.....	3.40	1.70
70	Friend Brothers.....	Main, cor. Grove st..	86.73	33.14
			\$2,793.20	\$1,355.49

*Curbstone set in 1901.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Balance Feb. 1, 1902,	\$649 88
Appropriation,	1,000 00
" Order No. 1872,	186 54
Receipts paid to treasurer,	1,408 69
" from other divisions,	3 90
Amount carried forward,	\$3,249 01

Amount brought forward, . . .	\$3,249 01
Expended:	
For labor as per pay rolls, . . .	\$647 67
“ advertising, . . .	8 63
“ teaming, . . .	5 00
“ printing and stationery, . . .	4 00
“ pattern for curb, . . .	50
“ teams and stock, highway division, . . .	66 17
“ “ “ sewer “ . . .	5 90
“ concreting, Norris & Co., . . .	349 92
“ curbing, Granite State Granite Co., . . .	828 50
“ “ Angus MacDonald, . . .	18 67
“ “ S. & R. J. Lombard, . . .	602 61
“ “ F. E. Newhall, . . .	10 00
“ brick, . . .	206 45
	<hr/> 2,754 02
Balance in treasury, . . .	<hr/> \$494 99

Continuous Walks.

The concrete walk ordered on the west side of Rowe street, has been completed at a cost of \$64.42, one half of which, \$32.21, is assessed to the estate of George Lynde.

The brick walk ordered on Lebanon, Lynde and Potter streets has been completed at a total cost of \$647.31 for the work done in 1902, and a bill for \$376.78, the part chargeable to the Washington school (the only abutter) has been rendered and paid.

The curbing ordered set on the east and west sides of Main street, from Grove street to Foster street, has been completed at an expense of \$676.

Following is a statement in detail of the work done, together with the assessments to be levied:

NEW CONTINUOUS WALKS, 1902.

MAIN STREET, WEST SIDE.

Oliver M. Maxwell.

79.75 lin. ft. straight curb @ 49c.,	\$39 08	
79.75 lin. ft. straight curb setting @ $20\frac{44}{100}$ c.,	16 30	
	<hr/>	
	\$55 38	
Less $\frac{1}{2}$ cost paid by city,	27 69	
	<hr/>	\$27 69

Melrose Athletic Club.

One 2-ft. Rad. cor. block @ \$2.40,	\$2.40	
Setting same, @ $20\frac{44}{100}$ c.,	64	
	<hr/>	
	\$3 04	
Less $\frac{1}{2}$ cost paid by city,	1 52	
	<hr/>	\$1 52

Carter Bros.

53.82 lin. ft. straight curb @ 49c.,	\$26 37	
One 2-ft. Rad. cor. block @ \$2.40,	2 40	
Setting 56.96 ft. @ $20\frac{44}{100}$ c.,	11 65	
	<hr/>	
	\$40 42	
Less $\frac{1}{2}$ cost paid by city,	20 21	
	<hr/>	\$20 21

George A. Fuller.

49.20 lin. ft. straight curb @ 49c.,	\$24 11	
Two 2-ft. Rad. blocks @ \$2.40,	4 80	
Setting 55.50 ft. @ $20\frac{44}{100}$ c.,	11 34	
	<hr/>	
	\$40 25	
Less $\frac{1}{2}$ cost paid by city,	20 12	
	<hr/>	\$20 13

Nancy L. Fuller.

61.46 lin. ft. straight curb @ 49c.,	\$30 11	
Setting same @ $20\frac{44}{100}$ c.,	12 56	
	<hr/>	
	\$42 67	
Less $\frac{1}{2}$ cost paid by city,	21 33	
	<hr/>	\$21 34

Carrie L. Spear.

69.55 lin. ft. straight curb @ 49c.,	.	.	\$34 08
One 3-ft. Rad. block @ \$2.75,	.	.	2 75
Setting 74.25 ft. @ $20\frac{44}{100}$ c.,	.	.	15 18

 \$52 01

Less $\frac{1}{2}$ cost paid by city,	.	.	26 00
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 \$26 01

A. D. Maclachlan.

114.33 lin. ft. straight curb @ 49c.,	.	.	\$56 02
Two 3-ft. Rad. cor. blocks @ \$2.75,	.	.	5 50
Setting same (123.73 ft.) @ $20\frac{44}{100}$ c.,	.	.	25 29

 \$86 81

Less $\frac{1}{2}$ cost paid by city,	.	.	43 40
---------------------------------------	---	---	-------

 \$43 41

Carrie L. Spear.

25.4 lin. ft. straight curb @ 49c.,	.	.	\$12 44
One 3-ft. Rad. cor. block @ \$2.75,	.	.	2 75
Setting same (30.10 ft.) @ $20\frac{44}{100}$ c.,	.	.	6 15

 \$21 34

Less $\frac{1}{2}$ cost paid by city,	.	.	10 67
---------------------------------------	---	---	-------

 \$10 67

MAIN STREET, EAST SIDE.

A. W. Dunton.

31.80 lin. ft. straight curb @ 49c.,	.	.	\$15 58
Setting same @ $20\frac{44}{100}$ c.,	.	.	6 50

 \$22 08

Less $\frac{1}{2}$ cost paid by city,	.	.	11 04
---------------------------------------	---	---	-------

 \$11 04

Redford M. and Effie A. Rand.

83.45 lin. ft. straight curb @ 49c., . . . \$40 89

Setting same @ $20\frac{44}{100}$ c., . . . 17 06

\$57 95

Less $\frac{1}{2}$ cost paid by city, . . . 28 98

\$28 98

Mary E. Morton.

41.30 lin. ft. straight curb @ 49c., . . . \$20 24

One 2-ft. Rad. block @ \$2.40, . . . 2 40

Setting same (44.44 ft.) @ $20\frac{44}{100}$ c., . . . 9 09

\$31 73

Less $\frac{1}{2}$ cost paid by city, . . . 15 86

\$15 87

Chas. A. Larrabee Est.

52.00 lin. ft. straight curb @ 49c., . . . \$25 48

Two 2-ft. Rad. block @ \$2.40, . . . 4 80

Setting same (58.30 ft.) @ $20\frac{44}{100}$ c., . . . 11 92

\$42 20

Less $\frac{1}{2}$ cost paid by city, . . . 21 10

\$21 10

Lucy E. Gordon Est.

47 lin. ft. straight curb @ 49c., . . . \$23 03

Two 2-ft. Rad. blocks @ \$2.40, . . . 4 80

Setting same (53.30 ft.) @ $20\frac{44}{100}$ c., . . . 10 89

\$38 72

Less $\frac{1}{2}$ cost paid by city, . . . 19 36

\$19 36

Fred T. Churchill and W. J. Gordon.

51.80 lin. ft. straight curb @ 49c., . . . \$25 38

One 2-ft. Rad. block at \$2.40, . . . 2 40

Setting same (54.95 ft.) @ $20\frac{44}{100}$ c., . . . 11 23

\$39 01

Less $\frac{1}{2}$ cost paid by city, . . . 19 50

\$19 51

W. J. Tucker.

74.00 lin. ft. straight curb @ 49c., . . .	\$36 26	
Setting same @ $20\frac{44}{100}$ c., . . .	15 12	
	<hr/>	
	\$51 38	
Less $\frac{1}{2}$ cost paid by city, . . .	25 69	
	<hr/>	\$25 69

Sarah C. Burnett.

61.38 lin. ft. straight curb @ 49c., . . .	\$30 08	
Setting same @ $20\frac{44}{100}$ c., . . .	12 55	
	<hr/>	
	\$42 63	
Less $\frac{1}{2}$ cost paid by city, . . .	21 31	
	<hr/>	\$21 31

City of Melrose (at brook.)

12.05 lin. ft. straight curb @ 49c., . . .	\$5 59	
Setting same @ $20\frac{44}{100}$ c., . . .	2 46	
	<hr/>	
		\$8 36

ROWE STREET, WEST SIDE.

Est. George Lynde.

75.00 lin. ft. straight curb @ 45c., . . .	\$33 75	
Setting same @ 14c., . . .	10 50	
54.90 sq. yds. concrete @ 34c., . . .	18 67	
Inspection, . . .	1 50	
	<hr/>	
	\$64 42	
Less $\frac{1}{2}$ cost paid by city, . . .	32 21	
	<hr/>	\$32 21

Washington School. Brick walk.

Labor laying brick, grading, etc., . . .	\$227 87	
16,900 brick, . . .	225 20	
132 ft. straight curb (Potter St.) @ 49c., . . .	64 68	
Labor setting same, . . .	12 75	
	<hr/>	

Amount carried forward . . . \$530 50

Amount brought forward	530 50
Labor setting inside curb,	17 41
Granite steps, cement and setting,	94 12
	<hr/>
	\$642 03
Difference in stone not chargeable,	5 28
	<hr/>
Total cost,	\$647 31
Less ½ cost assessable to city,	\$265 25
Less stone not chargeable,	5 28
	<hr/>
	270 53
	<hr/>
	\$376 78

STATEMENT OF RECEIPTS AND EXPENDITURES.

Balance Feb. 1, 1902.	\$743 45	
Appropriation,	800 00	
	<hr/>	\$1,543 45
Expended :		
Rowe Street, concrete,	\$18 67	
Labor as per pay roll,	1 50	
	<hr/>	\$20 17
Washington School, curb-		
ing,	\$69 96	
Granite steps,	70 00	
Cement and sand,	5 70	
Brick,	225 00	
Labor and teams,	276 65	
	<hr/>	647 31
Main Street, curbstone		
and corners,	476 02	
Crushed stone, brick		
and cement,	4 05	
Labor and teams,	195 93	
	<hr/>	676 00
Advertising for bids,	9 13	
	<hr/>	\$1,352 61
	<hr/>	
Balance in Treasury,		\$190 84

STREET SPRINKLING.

Chapter 24 of the city ordinances provides that all streets designated by the Board of Aldermen shall be sprinkled by the Engr. and Supt. of Public Works, and also provides that he shall levy an assessment on the abutting estates at the rate of 3 cents per linear foot of lot frontage for occupied land and 1 cent per linear foot of lot frontage for vacant land.

On April 14th, the Aldermen passed Order No. 1,622, ordering that the following named streets be sprinkled :

	Lin. ft.
Ashland st., from Melrose st. to Highland av.....	1,241
Adams st., from Wyoming ave. to Russell st.....	827
Batchelder st., from Bellevue av. to Porter st.....	869
Bellevue av., from Linden st. to Upham st.....	2,442
Berwick st., from Foster st. to Wyoming av.....	1,230
Botolph st., from Franklin st. to West Hill av.....	373
Cass st., from Grove st. to Foster st.....	505
Cottage st., from Foster st. to Wyoming av.....	1,140
Emerson st., from Poplar st. to Orient Ave.....	4,773
Essex st., from Emerson st. to Main st.....	1,897
Florence st., from Foster st. to Russell st.....	2,132
Foster st., from Vinton st. to Larrabee st.....	4,784
Franklin st., from Main st. to Stoneham line.....	4,847
Green st., from Main st. to Porter and Lebanon sts.....	2,834
Greenwood st., from Franklin st. to Woodland av.....	1,147
Grove st., from Berwick st. to Larrabee st.....	3,983
Herbert st., from Berwick st. to Myrtle st.....	379
Howard st., from Green st. to M. G. Cochrane's.....	1,244
“ st., in front of No. 134.....	250
Hurd st., from Cottage st. to B. & M. R. R.....	776
Hillside av. from Bellevue av. to angle in st.....	336
Highland av., from Sargent st. to Cliff st.....	609
Lake av. from Emerson st. to Tremont st.....	1,224
Lebanon st., from Porter st. to Beech av.....	3,459
Lynde st., from Main st. to Summer st.....	1,234
Laurel st., from Lebanon st. to Gooch st.....	664
Main st., from Greenwood st. to Malden line.....	11,994
Malvern st., from Potter st. to Meridian st.....	1,325
Meridian st., from Grove st. to Beech av.....	737
Melrose st., from Vinton st. to Belmont st.....	654
Melrose place, from Melrose st.....	284
Myrtle st., from Grove st. to Emerson st.....	2,227
North av., from Walton Park to Stoneham line.....	693

Orris st., from Vinton st. to Walton Park.....	1,090
Orient av., from Porter st. to Emerson st.....	1,015
Pleasant st., from Wyoming av. to Ashmont st.....	1,361
Rowe st., from Upham st. to Porter st.....	1,405
Tremont st., from Emerson st. to J. P. Deering's.....	566
“ “ “ Franklin st. to Melrose st.....	847
Trenton st., from Foster st. to Washington st..	2,560
Upham st., from Main st. to Sewall st.....	2,511
Vinton st., from Franklin st. to Foster st.....	4,880
West Linden st., from Green st. to Main st.....	458
Wyoming av., from Stoneham line to east line Brown est.....	4,446
Walton Park, from Franklin st. to Orris st.....	832
Warren st., from Franklin st. to Orris st.....	614
Youle st., from Vinton st. to Leeds st.....	892
Dell av., from Upham st. to Winter st.....	362
	<hr/> 86,952

Advertisements were inserted in the local papers and bids were received as follows :

CANVASS OF BIDS FOR SPRINKLING ABOUT 85,000 FEET OF
STREETS IN MELROSE, MASS., FOR SEASON OF 1902.

Opened April 23, 1902.

Joseph Gibbons.....	\$43.50	per	1,000	feet	Total, \$3,697.50
C. L. Hoffman.....	42.00	“	“	“	“ 3,570.00
F. A. Pratt.....	41.05	“	“	“	“ 3,540.25
Norris & Co.....	41.42	“	“	“	“ 3,485.00
Philip S. Keating.....	40.00	“	“	“	“ 3,400.00

The bid of Philip S. Keating was accepted, and he signed a contract and gave a bond of \$1,000 for the faithful performance of the same. By the terms of this contract the city paid for each 1,000 linear feet of street sprinkled during the month of

May	\$6.00	September	\$7.00
June	7.00	October	6.00
July	7.00	November	0.00
August	7.00	December	0.00

In order to give to the citizens the very best service possible, an inspector was employed to take charge of the work and to see that the contractor complied with all the terms of his contract. Few complaints were received, and the work was apparently satisfactory to all.

On the line of the streets sprinkled are situated 1,404 estates, on which assessments amounting to \$3,973.72 were levied and certified to the Assessors as follows :

122,821.75 lin. ft. occupied @ 3 cents,	\$3,684.65
28,299.24 " " vacant " 1 cent,	283.00
	<u>\$3,967.66</u>

STATEMENT OF STREET SPRINKLING FUND, JANUARY 31, 1903.

Uncollected Jan. 1, 1900,	\$1,552 97
Amount of net assessment for 1900,	3,901 67
" " " " 1901,	3,903 42
" " " " 1902,	3,967 66
	<u>\$13,325 72</u>

Expended :

Deficiency Jan. 1, 1900,	\$1,183 79
Expended 1900,	4,334 60
" 1901,	3,542 51
" 1902,	4,521 65
	<u>\$13,582 55</u>
Deficiency,	\$256 83

From the foregoing statement it will be seen that the assessments levied do not pay all the expense of doing the work, and this deficiency will increase from year to year as the repair to carts will be greater in the future, and all standpipes should be changed to the improved swing arm standpipes. This would cost about \$600.00, but would be economy in the end as the cost of repairs would be less.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Assessments levied,	\$3,973 71
Less abatements,	6 05
	<u>\$3,967 66</u>

Expended :

By amount paid Philip Keating,	
on contract,	\$3,478 06
By amount paid Philip Keating	
sprinkling streets before contract	
was made,	54 00
	<u>\$3,532 06</u>
Amounts carried forward	\$3,967 66

Amounts brought forward,	\$3,532 06	\$3,967 66
By amount paid highway division,		
sprinkling,	79 56	
By repair to carts,	314 49	
" repairs to standpipes, valves and		
hose,	102 70	
By repairs by water division, stand-		
pipes, valves and hose,	83 34	
By amount paid for inspection	362 25	
" " " advertising and		
printing,	12 25	
By amount paid for assessment		
schedules,	35 00	
	<hr/>	\$4,521 65
Deficiency,	\$553 99	

STREET LIGHTING.

On February 1st, a new contract was made with the Malden Electric Company for three years; the prices are a little less than the former one, being for arc light \$70.00 per annum and for incandescent \$15.50 per annum.

We now have 52 arc and 543 incandescent lights, which is an increase of 21 incandescent lights for the year.

RECEIPTS AND EXPENDITURES.

Appropriation,	\$12,325 00	
Transferred from general contingent,		
Order No. 1763,	125 00	
	<hr/>	\$12,450 00
Expended:		
Malden Electric Company,	12,275 78	
Balance in Treasury,		\$174 22

STONE BOUNDS.

Of our public highways eleven miles and over have been laid out by the County Commissioners; the lines of some being more or less indefinite, they were petitioned to relocate them. This work has been done, the lines defined, plans made and filed, and bounds set on the following streets:

Forest street,	5
Main street,	3
Ravine road,	4
Upham street,	16
Vinton street,	17
Total,	45

RECEIPTS AND EXPENDITURES.

Balance Feb. 1, 1902,	\$114 24	
Receipts paid to Treasurer,	4 35	
		\$118 59
Expended:		
For labor and teams as per pay roll,	\$53 05	
For stock from water division,	75	
		53 80
Balance in Treasury,		\$64 79

COLLECTION OF ASHES AND HOUSEHOLD RUBBISH.

On June 13, 1902, the Board of Aldermen passed Order No. 1710, appropriating \$1700.00 for the collection of ashes, directing that the same be done under the directions of the Engineer and Superintendent of Public Works.

Advertisements were inserted in the local papers, and bids received and opened June 28, 1902, as follows:

	Robert Philpot, 76 Dell Ave., Melrose.	S. F. Howes, W. Emerson St., Melrose.	P. S. Keating, Pleasant St., Melrose.	C. L. Hoffman, 44 Charles St., Melrose.
Month.	Price.	Price.	Price.	Price.
January	\$160.00	\$305.00	\$200.00	\$134 00
February	160.00	305.00	200.00	134.00
March	160.00	305.00	200.00	130.00
April	160.00	285.00	100.00	130.00
May	160.00	66.50	100.00	130.00
June	80.00	66.50	100.00	130.00
July	80.00	66.50	100.00	130.00
August	80.00	66.50	100.00	130.00
September	80.00	66.50	100.00	130.00
October	80.00		100.00	130.00
November	160.00	300.00	100.00	130.00
December	160.00	300.00	200.00	134.00
	\$1,520.00	\$2,132.50	\$1,600.00	\$1,572.00

The bid of Robert Philpot was accepted and a contract entered into.

STATEMENT OF RECEIPTS AND EXPENDITURES.

Appropriation,	\$1,700 00
Expended:	
Amount paid to Robert Philpot, 85%	
contract price to Feb. 1, 1903, .	\$680 00
Amount paid labor as per pay rolls,	117 00
Amount paid advertising and print-	
ing,	26 00
	<hr/>
	823 00
Balance on hand,	<hr/>
	\$877 00

PARKS.

Melrose owns no large park with shrubs, flowers and drives but has a common which has never been graded, and 15 or 20 acres of wild land on the north side of Ell Pond which eventually can be made a very beautiful spot, but needs to be graded or filled in. This work has been started in a small way by cleanings taken from the streets. We also have 9 acres of woody land known as Sewall Woods Park. These, together with several small triangular lots in various parts of the city, constitute the public grounds.

RECEIPTS AND EXPENDITURES.

Appropriation,	\$150 00
Expended:	
Amounts paid A. W. Lynde, labor	
and teams,	\$48 77
Amounts paid W. A. Goodno, labor, .	14 00
" " F. E. Coyle, hardware, .	3 15
" " J. P. Deering & Co.,	
lumber,	20 55
	<hr/>
	86 47
Balance in Treasury,	<hr/>
	\$63 53

CITY HALL.

Attention was called by the Board of Health to the sanitary arrangements in the City Hall, stating that they were contrary to the provisions of the public statutes, which require separate toilet-rooms in all public buildings occupied by both sexes. This matter was brought to the attention of the Board of Aldermen, and a request made for an appropriation sufficient to divide the closet now occupied by the Board of Aldermen as a coat-room into two small toilet-rooms and to install the necessary plumbing, but the request was not granted. Later the Board of Health called attention to the unsanitary condition of the basement of the City Hall where the public toilet was located. A report of its condition, together with an estimate of the cost of making the necessary changes was submitted to the Board of Aldermen, and they by order No. 1723 appropriated \$373.00 for this purpose. The work has been completed at an expense shown below. This provides suitable accommodations for the male occupants only, and some provision should be made for the women, as there are a number of them employed in the building.

CITY HALL BASEMENT.

Appropriation, Order No. 1723, . . .	\$373 00
Expended:	
Toomey & Co., plastering,	\$6 00
Piping,	1 77
Wm. Morss, plumbing, heating and lighting,	185 00
Wm. Morss, carpenter work and painting,	134 00
Wm. Morss, incidentals and door check,	17 13
Labor as per pay rolls,	15 06
Light glass in toilet-room,	50
	<hr/> 359 46
Balance,	\$13 54

At the time of making repairs in the City Auditorium and putting in new seats, their arrangement and numbers were changed, and since then there has been no new lithograph

made. Inasmuch as each person engaging the Auditorium requires a plan of the seats, I would suggest that a price be fixed for furnishing the same; at present blue prints are given them free.

The Auditorium was used 37 times, divided as follows:

Rehearsal, 1,	\$10 00
Afternoons, 3,	30 00
Full charge, 13,	310 00
Free, 6 afternoons and 14 evenings.	

STATEMENT OF COLLECTIONS.

DR.

To rent of City Auditorium, 1902,	\$350 00	
" sale of old seats,	23 70	
" sale of junk,	11 07	
" cleaning corridor,	1 50	
" rent City Auditorium, uncollected		
1901,	45 00	
	<hr/>	\$431 27

CR.

By cash paid Treasurer, rent Auditorium,		
1902,	\$320 00	
By cash paid Treasurer, rent Auditorium,		
1901,	25 00	
By amount uncollected, rent Auditorium,		
1902,	30 00	
By amount uncollected, rent Auditorium,		
1901,	20 00	
By cash paid Treasurer, sale of old seats,	23 70	
" " " " " junk,	11 07	
" " " for cleaning corridor City		
Hall,	1 50	
	<hr/>	\$431 27

RECEIPTS AND EXPENDITURES.

Appropriation, janitor's service, . . .	\$750 00	
" heating,	275 00	
" lighting,	1,000 00	
" incidental ex- pense,	\$300 00	
Appropriation, Dec. 8, 1902, Order No. 1986,	40 00	
Bill Thos. Kehoe, app'd March 5, paid from deficiency appr'n, order No. 1663,	1 00	
	<u>341 00</u>	
		\$2,366 00
Expended:		
Paid janitor and laborers, . . .	\$723 50	
" S. E. Benson & Co., \$ 28 75		
" W. A. Jepson,	246 25	
	<u>275 00</u>	
Paid for supplies City Hall:		
Contingent,	\$96 83	
Repairs,	225 09	
Moving and repairs to piano,	16 00	
	<u>337 92</u>	
Paid lighting, Malden Electric Company \$595 40		
Paid lighting, Malden & Melrose Gas Light Co.,	159 60	
	<u>755 00</u>	
		\$2,091 42
Balance in treasury, lighting account,	\$245 00	
Balance in treasury, janitor account,	26 50	
Balance in treasury, contingent account,	3 08	
	<u>274 58</u>	
		\$2,366 00

The appropriation for the contingent expense of this building has never been large enough to meet the demands, and each year there has been a deficiency. This year the account does not show it, as by the special authority from the Board of Aldermen, certain improvements in the basement (cementing cellar and renewing water pipes) were made by the regular employees of other divisions of the public works department and from the stock on hand. The entire expense of this work was as follows:

Renewing water pipes:

Stock,	\$17 15	
Labor,	3 57	
	<hr/>	\$20 72

Cementing cellar:

Stock,	\$50 13	
Labor and teaming,	52 27	
	<hr/>	102 40
		<hr/> \$123 12

The other divisions will have to be reimbursed for this expense as follows:

Sewer division, for cement,		\$39 88
Water division, stock,	\$17 15	
" " labor,	3 57	
	<hr/>	20 72
Highway division, labor,	\$52 27	
" " crushed stone		
and sand,	10 25	
	<hr/>	62 52
		<hr/> \$123 12

Notwithstanding the coal famine and the excessive price charged for fuel, I am pleased to report that the appropriation for heating was not exceeded and was sufficient, not only to heat the building to February 1, 1903, but there is enough fuel on hand to last the balance of the winter; and we were also able from the supply on hand to lend to the relief committee about 15 tons, which was later returned.

The aggregate of all appropriations amounts to \$2,366.00, while the aggregate of all expenditures, exclusive of the

work of renewing water pipes and cementing cellar, was only \$2,091.42, showing a balance of \$274.58.

ENGINEERING DIVISION.

The work in this division has been of the same general character as in previous years, and is much more than is generally realized.

A summary of the work done is as follows:

SCHEDULE OF STREET NUMBERING, DONE IN 1902.

Public Works Department, March, 1903.

Street.	Doors Numbered.			Total Numbers Used.
	Re-numbered	New.	Total.	
Berwick street.....	16	5	21	45
Brunswick park.....	3	..	3	6
Cumner avenue.....	1	..	1	2
Cutter street.....	10	..	10	20
Essex street.....	1	..	1	2
Franklin street.....	81	33	114	348
Fairview avenue.....	2	..	2	4
Florence street.....	31	1	32	84
Glen avenue.....	3	..	3	5
Gibbons street.....	1	..	1	2
Holbrook court.....	8	..	8	16
Larrabee place.....	2	1	3	6
Melrose place.....	6	..	6	12
Mt. Vernon street.....	1	..	1	2
Park street.....	1	..	1	1
Pleasant street.....	28	6	34	104
Winthrop place.....	3	11	14	27
West Foster street.....	24	6	30	75
York Terrace.....	9	3	12	23
Vinton street.....	3	..	3	9
Scattered .....	..	58	58	120
Totals.....	234	124	358	913

FOR HIGHWAY DIVISION.

Street Lines and Grades for Construction, Gutters, Crossings, etc.

Ashland st., gutter, Highland av. to Henry av., east and west sides.
 Beech av., gutter, north side Lebanon st. to Elliot st.
 Crescent av., gutter, brook to Ashmont st.
 Clifton Park, gutter, Woodland av., south, both sides.
 Damon av., grading, Frost av. to Boardman av.
 First st., gutter, Eighth st. to Gooch st.

Franklin st., gutter, Howie ct. to Cliff st.
 Frances st., curb reset at Twitchell's.
 Gooch st., low pt. to Laurel st.
 Howard st., Green st. to brook, line and grade.
 Lebanon st., (at McCarty's) gutter.
 Main st., gutter, Grove to Lynde, east side.
 " " and Larrabee place, crossing.
 " " " Faulkner " "
 Meridian st. and Grove st., crossing.
 Myrtle st. and Essex st., crossing.
 Spring st., grading.
 Tremont st., grading and gutters, Franklin st. south to angle.
 Vinton st., gutter, south from Franklin st.
 Woodland ave., grading and gutter, Clifton park to city line.
 Willow st. and Myrtle st., crossing.

FOR SEWER DIVISION.

Streets Sewered, Lines and Grades Given, Quantities Computed, Estimates Rendered, Plans and Profiles Made.

Argyle street.....	704 feet
Corey place.....	182 "
Hesseltine avenue.....	746 "
Heyward avenue.....	690 "
Right of Way (South of Pearl street).....	305 "
	<hr/>
	2,627 feet

FOR PROPOSED SEWER.

Richardson road, Henry avenue to Alpine street..... 800 feet

FOR WATER DIVISION.

Lines for construction spiked out, estimates of cost made, plans and profiles partly completed and drawings and blue prints of special castings furnished.

	Feet.		Feet.
Ashland street.....	970	Henry avenue.....	172
Berwick street.....	177	Hillside avenue.....	610
Cherry street.....	350	Lebanon street..	1,085
Cleveland street.....	1,376	Maple street.....	1,137
Clifton Park.....	150	Upham street.....	953
Chipman avenue.....	380	Vine street.....	569
Dell avenue.....	1,170	Vinton street.....	56
Emerson street.....	322	Willow street.....	624
Forest street.....	370	Winthrop street.....	660
W. Foster street.....	1,325	Waverly avenue.....	417
Hancock street.....	60	Wyoming avenue.....	1,928

FOR SIDEWALKS.

I. CURBING.—Plans and profiles made ; lengths and radii computed. Lines and grades given. Work inspected and measured.

Location.	Linear Feet		Description
	Straight	Curved	
Ashland street at No. 103.....	66.00	26.16	Individual
“ “ “ “ “ inside.....	6.20	.....	“
Bartlett “ “ “ 19.....	60 10	.....	“
“ “ “ “ 12.....	65.20	.....	“
Bellevue avenue at No. 106.....	199.95	12.10	“
Crescent “ “ “ 91.....	49.65	.....	“
“ “ “ “ 32.....	37.30	6.30	“
Crystal street at Nos. 3, 5.....	107.50	10.60	“
Crescent avenue at No. 28.....	37.00	6.30	“
“ “ “ “ 24.....	37.00	6.30	“
Dell “ “ “ 76.....	63.60	6.28	“
W. Emerson street at B. & M. R.	87.00	.....	“
Essex street, cor. Myrtle street.....	6.10	10.00	Highways
W. Foster street at B. & M. R. R.....	33.39	8.21	Individual
First street at No. 108.....	80.00	.....	“
Grove “ “ standpipe.....	25.20	.....	Highways
Grove “ “ Friend Bros.....	81.55	6.30	Individual
Laurel street at No. 49.....	61.30	.....	“
Lebanon street at No. 478.....	69.40	12.60	“
“ “ “ “ 418.....	55.81	6.30	“
Meridian street, cor. Grove street....	16.70	21.30	“
Main street, Foster to Grove street...	922.29	50.30	Continuous
“ “ cor. Wyoming avenue....	250.70	12.50	Individual
“ “ at No. 956.....	60.00	.....	“
“ “ “ “ 960.....	60.00	.....	“
“ “ “ “ 964 and 984.....	281.20	6.30	“
Trenton street at No. 70.....	52.92	12.56	“
“ “ “ “ 72.....	45.00	.....	“
Upham “ “ “ 127.....	188.90	9.55	“
Vinton street at No. 22.....	102.24	.....	“
Winthrop street at No. 35.....	43.10	6.30	“
Wyoming avenue at No. 12 (west)....	63.00	12.60	“
Washington school.....	132.00	.....	Continuous
Warren street, cor. Orris street.....	14.30	9.45	Highways
Spring street, cor. Briggs street.....	232.30	10.55	Individual
Totals	3,693.90	268.86	

2. CONCRETE.—(Under contract with Norris & Co.) Laid out, measured and estimates rendered.

	Quantities in sq. yds.			Totals.
	Repairs.	New work.	Top dressing.	
For Highway Division.....	703.09	93.67	13.61	810.37
“ Sewer “	39.85	1.11	.....	40.96
“ Water “	41.99	3.31	.....	45.30
“ Sidewalks	2,102.64	1,049.89	3,263.62	6,416.15
“ Public Corporations.....	17.37	5.28	1.38	24.03
Totals.....	2,904.94	1,153.26	3,278.61	7,336.81

3. BRICK WALKS.—Line and grade given. Data furnished.

	Sq. Yds.
Bellevue avenue at No. 106.....	158.00
Vinton street at No. 22.....	68.00
Washington School	360.00
Total.....	586.00

FOR SURFACE DRAINAGE.

Surveys, computations and plans made, lines and grades given for all work constructed during the current year, viz :

Lebanon street: Grove street, east to Washington school.

Franklin street : Main street west to brook at Howie court.

Grove street : Gooch street to Larrabee street.

Culverts at Melrose street and Frost avenue.

Surveys, computations and taking plans made for proposed work, viz :

Albion street to Highland avenue via Right of Way.

Linwood av. drain Leonard's Brook via Right of Way to Summer st.

Otis street drain, Ell Pond via Right of Way to Leeds street.

Grove street, Main street to Linwood avenue.

Plans and profiles of previous year's work, completed.

Linden street brook, levels Green street to Melrose Common.

FOR CEMETERY DEPARTMENT.

40 lots surveyed, plotted, figured, traced and blue printed.

Soldiers' Monument :

Staking out lot.

Grades and lines for Construction.

Plans and blue prints of casting.

Blue prints of working plans.

FOR STREET NUMBERING.
(See report already made)

FOR ASSESSING DEPARTMENT.

Re-division of sewer assessments as called for.
Schedule of assessments for street watering.
Schedule of assessments for sewer extensions for years
1901 and 1902.
Schedule of assessments for new sidewalks and curbing.

FOR ASSESSMENT PLANS.

Traverse made for Norrisville sewer extension: viz,
Howard street across private land to Damon avenue and
Boardman avenue, thence via Right of Way to Hesseltine
avenue and Howard street.

3 new assessment sheets plotted and all new sewers added
and assessments recorded thereon.

New houses located, and plotted.

Re-numbering done.

STREET LINES SURVEYED FOR RECORD

Holland road
Hamilton road
Main street and Foster corners
Orris street
Dell avenue
Winter street
Richardson road
Ashland street
Henry avenue
Malvern street

FOR ABUTTERS.

Street lines and grades given.

Crescent avenue, trees
Cedar park, proposed regrading of lawns
Crystal street, grading
Damon avenue, "
First street "

Fairview avenue, wall
 Green street, B. & N. St. Ry. track
 Reading Hill avenue, wall
 Richardson road, grading
 Swain's Pond avenue, fences
 School street, grading
 Washington street, grading

FOR OFFICE RECORD PLANS.

Streets cross sectioned for record grades.

Ashland street, Franklin street to Alpine street
 Bartlett street
 Briggs street
 Cedar park, R. R. to Vinton street
 Eighth street
 W. Emerson street, Tremont street to Vinton street
 W. Foster street, Berwick street to Cottage street
 Holland road
 Hamilton road
 Lebanon street, Foster street to Washington school
 " " Forest " " Malden line
 Leeds street
 Main street, Foster street to Emerson street
 Melrose street, Main street to Albion street
 Orris street, Vinton street to Walton park
 Porter street, Main street to Orient avenue
 Potter street
 Richardson Road
 Spring street
 Trenton street, Washington street to Wyoming avenue
 Tremont street, Ell Pond park to Franklin street
 Upham street, Lebanon street to Gooch street
 Winthrop street
 Warren street

RECORD GRADE PLANS.

Transferred from tracing cloth to mounted paper.

Emerson street, Lebanon street to Lake avenue

Franklin street, Main street to R. R. crossing
 Green street
 Laurel street, Sixth street to Waverly avenue
 Meridian street, Grove street to Beech avenue
 Mt. Vernon street and Brown street
 Malvern street, Meridian street to Potter street
 Waverly avenue, Upham street to Third street
 Wyoming avenue, R. R. crossing to Trenton street
 York terrace

MISCELLANEOUS.

Line and grade for B. & N. St. Ry., Essex street to Emerson street.

Plan Linden street, Green street and Holbrook court to Franklin street, for Police Department.

Grade for stone bound, Vinton street for county commissioners.

Layout of city scales.

Plan for re-arrangement of toilet room, city hall basement.

Detail plans—stones for steps, Washington school.

Layout for proposed card index.

Schedule of electric lights and index to plan.

CLASSIFIED DIVISION OF THE WORK OF THE ENGINEERING
OFFICE REDUCED TO MONEY.

Highway division, construction, lines and grades,	\$152 52
Sidewalks, curbing and concrete, lines and grades,	219 11
Water division, lines, plans and estimates	265 13
Sewer division, construction—lines, grades and assessments,	341 82
Surface drainage, construction—lines, grades and plans,	275 49
Record grade plans, bench levels, etc.,	562 50
Estimates and computations	85 59
Deed records, indexing and general office work,	359 79
Tracings of all kinds,	20 25
Amount carried forward,	<u>\$2,282 20</u>

Amount brought forward,	\$2,282 20
Assessment plans,	110 63
Street numbering,	97 75
For abutters, lines and grades,	55 59
Wyoming cemetery, surveys, computations and plans,	55 00
For public service corporations,	18 90
	<hr/>
	\$2,620 07

RECEIPTS AND EXPENDITURES.

Appropriation, salaries,	\$3,000 00	
Less transferred to supplies, Order No. 2025,	100 00	
	<hr/>	\$2,900 00
Appropriation, supplies,	\$300 00	
Transferred from salaries, Order No. 2025,	100 00	
	<hr/>	400 00
		<hr/>
		\$3,300 00

Expended:

For salaries as per pay rolls,	\$2,620 07	
“ supplies as per invoices,	390 23	
	<hr/>	
	\$3,010 30	
Balance in treasury, supplies account,	\$9 77	
Balance in treasury, salary account,	279 93	
	<hr/>	\$289 70
		<hr/>
		\$3,300 00

MISCELLANEOUS WORK.

In addition to the foregoing, various minor matters have been ordered done by the Board of Aldermen, and special appropriations made to pay the expense. The expenditures follow, together with the expenditures charged to the general contingent appropriation.

CITY SCALES.

Appropriation, Order No. 1744, . . .	\$300 00	
" " " 1861, . . .	100 00	
	<hr/>	\$400 00
Expended:		
Fairbanks & Co., for scales, . . .	\$200 00	
" " " book, . . .	1 00	
McQuesten & Co., lumber, . . .	70 85	
Labor as per pay rolls, . . .	83 06	
Highway Div., crushed stone and teams, . . .	9 37	
Sewer Div., cement, . . .	21 35	
	<hr/>	385 63
Balance in treasury, . . .		\$14 37

LIFE SAVING APPARATUS.

Appropriation,	\$100 00	
Expended:		
Amount paid W. A. Goodno, . . .	\$35 00	
" " J. P. Deering & Co., lumber, . . .	20 97	
" " Burdett & Williams, for ladders, ropes, boat-hooks, etc., . . .	20 30	
Amount paid expressage from Boston, . . .	1 00	
	<hr/>	77 27
Balance in treasury,		\$22 73

ALDERMANIC CHAMBER.

Appropriation,	\$60 00	
Expended:		
H. J. Harwood, for 24 portable assembly chairs, . . .	44 40	
	<hr/>	\$15 60

DIX POND.

Appropriation,	\$100 00	
Expended:		
Labor as per pay rolls,	99 50	
	<hr/>	\$0 50
Balance in treasury,		\$0 50

IMPROVEMENT MELROSE COMMON.

Appropriation, Order No. 1679,	\$50 00
Expended:	
F. E. Coyle, hardware,	\$4 68
J. P. Deering & Co., lumber,	16 93
W. A. Goodno, labor,	12 80
Labor as per pay rolls,	6 87
	<hr/>
	41 28
	<hr/>
Balance in treasury,	\$8 72

*AMOUNT PAID ON PAY ROLLS.

Fourth of July Celebration,	\$16 00
Gypsy Moth,	53 75
Brown-tail Moth,	653 93

*The labor was paid on the general pay rolls, approved by the Engineer and Supt. of Public Works, but the bills were approved by the Mayor.

BILLS APPROVED AND PAID FROM GENERAL CONTINGENT FUND.

Election Expenses:

M. F. Eastman, rent,	\$35 00
Dr. J. S. Clark, rent,	25 00
Wyoming Lodge, F. & A. M., rent,	25 00
C. J. Wing, janitor services,	28 00
W. A. Goodno, preparing booths,	25 75
Brock Bros., stove, etc., Green street,	5 62
Frost & Hawes, oil,	1 76
S. E. Benson & Co., wood,	90
	<hr/>
	\$147 03

House Numbering:

Allen Bros., nickel numbers,	\$37 15
F. E. Coyle, numbers,	6 20
Eastman's express,	15
D. C. Albee, repair door Franklin st.,	1 50
	<hr/>
	45 00
	<hr/>

Amount carried forward,	\$192 03
-----------------------------------	----------

Amount brought forward,	\$192 03	
Telephone Service:		
N. E. Telephone & Telegraph Co.,	69 48	
Dix Pond Drain:		
J. P. Deering & Co., lumber,	\$10 42	
Labor as per pay rolls,	47 62	
	<hr/>	58 04
Getting Negatives of flooded district, Wyoming:		
A. Shepherdson,	\$24 00	
Melrose Club Stable, team,	8 00	
	<hr/>	32 00
Flag and Rope, for staff Upham street:		
H. C. Clark, flag,	\$12 50	
F. E. Coyle, rope,	4 80	
	<hr/>	17 30
Recording deeds, E. O. Childs,	12 01	
Ice for fountain and city hall, Altamont Ice Co.,	48 00	
Public Drinking Fountain:		
Brock Bros.,	\$1 86	
H. J. Perry,	1 00	
Labor as per pay rolls,	5 79	
	<hr/>	8 65
Carriage hire for Aldermanic Committee:		
Melrose Club stable,	1 00	
	<hr/>	
Total,	\$438 51	

In conclusion, I wish to express my appreciation of the many courtesies extended me, to thank the members of the Board of Aldermen for their consideration, and to acknowledge my indebtedness to all of the assistants and employees of the department for their cooperation.

Respectfully submitted,

W. DABNEY HUNTER,
Engineer and Supt of Public Works.

Melrose, Mass., Feb. 1, 1903.

ANNUAL REPORT OF THE
TRUSTEES OF THE MELROSE PUBLIC LIBRARY
FOR THE YEAR 1902.

The Trustees of the Melrose Public Library respectfully present their thirty-second Annual Report, including statements of the Librarian and of the Treasurer; and they ask your consideration of the conditions reported and of the provision necessary for the maintenance of its usefulness.

The value of the educational work of a public library is so generally recognized that we need not urge its claims in this line. Second in importance, but not to be overlooked, is the helpful diversion offered the community by the varied selection of books presented for their use. This diversion is never more needed and, as statistics show, the opportunities provided are never as well utilized as in those rare periods, one of which our city has just gone through, when the comforts and attractions of home are seriously impaired and the burdens of life are doubled.

Your Trustees have studied to make the library of widest service in both these directions, including in the purchase of miscellaneous books, reliable reference books, works on domestic science, and many volumes requested by the teachers of the public schools and specially helpful in their work.

Other libraries have been visited, to learn of new and approved methods, and, as far as our limited quarters and restricted means have served, these methods are in operation.

The statistics indicate some of the results of our work. The general circulation has largely increased, although at the Highlands Delivery Station it has fallen a little below the figures of last year. So many families fail to surrender

their cards upon removing from the city, that the total number of persons using the library is undoubtedly less than reported, but many new cards have been issued, more than one-fourth of these being students' or teachers' cards.

The recorded attendance in the Reading Room does not show the best results that might be secured in our city. Our present location furnishes advantages as a waiting-room for guests who are sometimes heedless of the purposes of the room, and the enforcement of the rules necessary to secure order and quiet has, possibly, seemed arbitrary.

But we look forward to the disappearance of much of this confusion and noise, and, consequently, of many vexatious regulations, when at the close of another year we shall occupy a home of our own on a more quiet thoroughfare, somewhat removed from the din of electric car traffic.

Among the gifts received are included several of much value. "The Memoirs of the Judiciary and Bar of New England," has been presented by Prof. John Chipman Gray. The Sons of the American Revolution have sent the Library "A National Register of the Society," and the Commonwealth, the ninth volume of the valuable work, "Mass. Soldiers and Sailors of the Revolutionary War." Mr. Elbridge H. Goss has presented the Massachusetts edition of the "American Series of Popular Biographies," which contains brief biographical sketches of the most eminent citizens of the Commonwealth. "The Lawson History of The America's Cup," a fine specimen of artistic book-making, is the gift of Mr. Thomas W. Lawson. We return our thanks to all donors who have remembered us.

By vote of the Board of Aldermen, in June, we were authorized to arrange for the publication of the History of Melrose, written by Mr. Elbridge H. Goss, and were further authorized to spend the sum of fifteen hundred dollars appropriated therefor; while all profits were to be used for the benefit of the Library. A contract was made with A. W. Dunton & Co., whose prices were as low as any given, and whose work is highly spoken of. Each section of one hundred pages, with illustrations, has been examined by the author before acceptance. The work is nearly completed,

and the volumes will be ready for sale during February, 1903. By further contract with the same publishers, who again offered the best terms obtainable, they will canvass for the sale of the book, the selling price being three dollars. Carefulness has been necessary to keep within the appropriation. The Library probably will not be enriched financially by this undertaking, but we congratulate the City upon the completion of so excellent a history by one of our own citizens, and that the typographical work will also be done in the community.

In the printed Reports of the City for 1900 and 1901, the statements of the Trust Funds held by us were omitted. We now present the missing reports with that of the past year, so that the records may be complete. A further statement in regard to these funds may be desirable.

The Catalogue Fund represents the fines collected during the year, and this sum has been added, with interest, to the unexpended balance from the last publication of our Finding List. The expenses of our bulletins and of the Card Catalogues are paid from this fund.

The income of the Wm. Emerson Barrett Fund, as specified by the donor, is reserved for books upon the Home, its surroundings and decoration.

The income of the Horatio Nelson Perkins Fund is devoted to the purchase of valuable historical works.

The income of the William Bailey Fund is reserved for standard works of permanent value.

The complete works of Chaucer, Shelley, Thoreau, Victor Hugo, and new and beautiful standard editions of Dickens, Hawthorne, Scott, Thackeray, Irving, and other representative English and American authors were purchased from the income of the Bailey Fund in accordance with this plan. In the humble opinion of your Trustees, the respect and affection for a book as an object to be handled carefully and kept free from soil and defacement are in no way better cultivated than by presenting to the patrons of the Library attractive, clean, well-printed editions, illustrated, if not too expensive; and then by reminding the patrons of the importance of caring for these books so that others will derive

from them the same pleasure they have had. This is one way in which the Trustees desire to meet the reasonable criticism of some thoughtful physicians, parents and teachers, who have courteously called our attention to the untidiness and uncleanness of some of our books, particularly those of standard authors much in demand by pupils of our schools.

The resignation of Mr. Charles A. Patch, Treasurer, which was tendered to the Trustees in November, was accepted. Mr. Edward M. Munyan was elected his successor. The accounts have been duly audited. The statements of the Trust Funds and the present investment of the same are made a part of this Report.

As the pressing necessity for a library building has been apparent to us for several years, we have thought it advisable to hold a portion of our interest money in reserve to meet demands that would naturally arise on removing to larger quarters; but we have been compelled by the cutting down of our appropriation to use part of our savings to purchase books for general use.

We wish to express our appreciation of the faithful services of our Librarian and her assistants for the past year.

We are grateful to learn that all steps preliminary to the building of the new Public Library have been taken, and that the actual work will soon be in progress. The plan selected gives suitable accommodations and provides for future growth. The arrangement of the rooms will be of advantage to the public and the student; will ensure quiet in the general reading-room and delivery room; will give children their place and privileges; and we hope, with the generous co-operation of our citizens and our many literary and patriotic societies, to complete and adorn the Historic and Art Rooms.

The appropriation for the past year was insufficient to meet the needs of the Library, and we respectfully and earnestly request for the coming year the sum of thirty-two hundred dollars and the dog tax. Of this sum, twelve hundred dollars must be paid for rent and heating. This contract may be terminated upon giving six months' notice,

and a portion of this money may not be used. Knowing that delays are to be counted upon, we dare not reduce the amount. Salaries, as for the past year, require eleven hundred dollars, and cannot be reduced if the rooms are to be kept open as at present. The remainder is asked for the purchase of books and running expenses. These include bills for lighting the rooms, which are now open for three hundred evenings of the year, and for maintaining the Delivery Branch at the Highlands; for rebinding and replacing worn books, which takes nearly one-seventh of the entire appropriation. Only by aid of our Trust Funds, and an economy which if continued, would seriously cripple the usefulness of the Library, have we been able to purchase a portion of the new books demanded; and a portion of the bill for magazines and periodicals for 1903, just received, remains unpaid. We again call your attention to the increased cost of books owing to new publishers' rates. We must prepare for removal, which will be an expense and will probably take place before the close of the financial year. Considering carefully and prudently our many needs, we urgently repeat our request for an appropriation for support and maintenance, of thirty-two hundred dollars and the dog tax.

This report would be incomplete if we did not acknowledge with grateful appreciation, the efficient services of Mayor Larrabee and the advisory committee appointed by him, in the choice of an Architect, and the making of a contract for the new building.

The exhibit of plans and sketches by the large number of Architects who kindly gave their professional time and skill to the problem, was an extremely interesting one, and the designs submitted, especially those of our own townsmen, revealed the thought which had been freely given to our local needs and requirements.

We appreciated the opportunity, granted to us by vote of the Committee, of a special examination of these plans.

It is our understanding that the contract entered into by the City is solely for the erection of a building, and that neither the fittings nor the furnishings were included in the requirements laid before the Architects.

This was so stated to the Board of Aldermen by Mayor Larrabee previous to the signing of the contract.

We have called the attention of Mayor Buttrick to the necessity of making such an adequate appropriation as will put the building in condition for use as a Public Library.

A fire proof stack room, such as is specified in the plans, necessitates the purchase of Steel Stacks.

As to all matters connected with the furnishing of the library, we are ready to procure accurate estimates in detail if they are desired by the Mayor or by the Board of Aldermen.

We doubt not that the City Government will deem it in the interest of judicious economy to appropriate a sum at least equal to the combined gifts of our own citizens towards the practical completion of the Library.

We understand that the Advisory Committee desires to include a suitable memorial to the Soldiers and Sailors of Melrose who served in the War of the Rebellion.

This Committee is still conferring with the public-spirited men and women of our city as to further gifts, and we have every reason to believe that the building, when completed, will be a fitting memorial, not only to Mr. Andrew Carnegie, but to the men and women of Melrose who agree with him that the free Public Library is the corner-stone in the scheme for the education of the people.

Respectfully submitted,

CHARLES C. BARRY,	} Trustees of the Melrose Public Library.
EDWARD M. MUNYAN,	
NEIL A. DIVVER,	
CHARLES A. PATCH,	
MARIA L. CHAPIN,	
MARY L. CHARLES,	
MARIA L. CHAPIN, Secretary.	

STATISTICS FOR 1902.

Number of volumes in the library Jan. 1, 1902, .	14,012
" " purchased in 1902, .	435
" " donated in 1902, .	23
	<hr/> 458
Number of volumes in the library Jan. 1, 1903, .	14,470
Number of persons using the library Jan. 1, 1902, .	7,257
" cards issued in 1902, .	572
" " relinquished in 1902, .	36
	<hr/> 536
Number of persons using the library Jan. 1, 1903, .	7,793
Number of students' cards issued in 1902, .	116
" teachers' " " 1902, .	45
" volumes replaced in 1902, .	158
" " rebound in 1902, .	797
" magazines bound in 1902, .	41
" days the library was open, .	305

Circulation.

Largest number of books issued in one day, .	555
Smallest " " " " " .	60
Largest " " " " month, .	6,321
Smallest " " " " " .	4,313
Number of volumes delivered at the Highlands, .	3,657
Total number of books issued in 1902, .	62,148

	Whole No. of books issued.	Per cent.
Fiction and Juvenile,	49,923	80.34
History and Travels,	2,980	4.80
Biography,	1,815	2.91
Literature and Essays,	1,422	2.29
Science and Arts,	1,047	1.67
Poetry and Drama,	1,120	1.80
Religion,	659	1.06
Magazines,	3,182	5.13
	<hr/> 62,148	<hr/> 100.00

STATEMENT OF TREASURER OF LIBRARY FUNDS, JAN. 1, 1901.

Horatio Nelson Perkins Fund.

Balance on hand, Jan. 1, 1900,	. . . . .	\$618 34
Interest,	. . . . .	21 82
		<hr/>
Balance on hand,	. . . . .	\$640 16

William Bailey Fund.

Balance on hand, Jan. 1, 1900,	. . . . .	\$2,922 85
Interest,	. . . . .	100 42
		<hr/>
Balance on hand,	. . . . .	\$3,023 27

William Emerson Barrett Fund.

Balance on hand, Jan. 1, 1900,	. . . . .	\$84 59
Interest,	. . . . .	3 13
		<hr/>
Balance on hand,	. . . . .	\$87 72

Catalogue Fund.

Balance on hand, Jan. 1, 1900,	. . . . .	\$557 14
Received from fines and catalogues,	. . . . .	153 35
Received from interest,	. . . . .	19 46
		<hr/>
		\$729 95
Dr. to sundry bills,	. . . . .	\$167 45
Balance on hand,	. . . . .	562 50
		<hr/>
		\$729 95

CHARLES A. PATCH,
Treasurer.

STATEMENT OF TREASURER OF LIBRARY FUNDS, JAN. 1, 1902.

Horatio Nelson Perkins Fund.

Balance on hand, Jan 1, 1901,	. . . . .	\$640 16
Interest,	. . . . .	19 33
		<hr/>
Balance on hand,	. . . . .	\$659 49

William Bailey Fund.

Balance on hand, Jan. 1, 1901,	\$3,023 27
Interest,	82 24
	<hr/>
	\$3,105 51
Dr. to books,	\$184 65
Balance on hand,	2,920 86
	<hr/>
	\$3,105 51

William Emerson Barrett Fund.

Balance on hand, Jan. 1, 1901,	\$87 72
Interest,	2 29
	<hr/>
	\$90 01
Dr. to books,	\$11 25
Balance on hand,	78 76
	<hr/>
	\$90 01

Catalogue Fund.

Balance on hand, Jan. 1, 1901,	\$562 50
Received from fines and catalogues,	154 28
Received from interest	15 43
	<hr/>
	\$732 21
Dr. to sundry bills,	\$180 78
Balance on hand,	551 43
	<hr/>
	\$732 21

CHARLES A. PATCH,
Treasurer.

REPORT OF TREASURER OF LIBRARY FUNDS, JAN. 1, 1903.

CR.

William Emerson Barrett Fund.

Balance on hand, Jan. 1, 1902,	\$78 76
Interest from Melrose Savings Bank,	2 36
	<hr/>
	\$81 12

DR.

Balance on hand Jan. 1, 1903,	\$81 12
---	---------

Horatio Nelson Perkins Fund

CR.

Balance on hand, Jan. 1, 1902,	\$659 49
Interest from Melrose Savings Bank,	19 93
	<hr/>
	\$679 42

DR.

Balance on hand, Jan. 1, 1903,	\$679 42
--	----------

William Bailey Fund.

CR.

Balance on hand, Jan. 1, 1902,	\$2,920 86
Interest,	60 59
Interest on City of Melrose Note, \$2,000 for 1 yr.	70 00
	<hr/>
	\$3,051 45

DR.

Paid Charles E. Lauriat Co., on acct.	
for books,	\$70 00
Balance on hand,	2,981 45
	<hr/>
	\$3,051 45

Catalogue Fund.

CR.

Balance on hand, Jan. 1, 1902,	\$543 18
Interest,	22 27
Received from Librarian for fines for year,	126 32
	<hr/>
	\$691 77

DR.

Paid sundry expenses at library for year,	\$65 32
Balance on hand	626 45
	<hr/>
	\$691 77

EDWARD M. MUNYAN,
Treasurer.

ASSETS.

Wm. E. Barrett fund, Melrose Savings Bank book, No. 3,445	\$81 12
H. N. Perkins fund, Melrose Savings Bank book, No. 1640,	679 42
Wm. Bailey fund, Melrose Savings Bank book, No. 8185,	981 45
Note of City of Melrose, dated Dec. 26, 1900, . .	2,000 00
Catalogue fund, Melrose Savings Bank book, No. 5,998,	626 45
	<hr/>
	\$4,368 44

The above account has been examined and found correct.

NEIL A. DIVVER,

Auditor.

ASSESSORS' REPORT.

January 31, 1903.

Hon. Sidney H. Buttrick, Mayor of the City of Melrose:

DEAR SIR: The Board of Assessors herewith submit their report for the year ending January 31, 1903.

VALUATION OF THE CITY.

	Buildings.	Land.	Total.
Real Estate, \$7,781,400 00	\$5,927,575 00		\$13,708,975 00
Personal Estate,			1,595,675 00
Resident Bank Stock,			60,830 00
			<hr/>
Total assessed valuation,			\$15,365,480 00

The above valuation of Real and Personal Estate, by wards, is as follows:

	Buildings.	Land.	Total R. E.	Personal Estate.
Ward 1,	\$1,132,500	\$758,650	\$1,891,150	\$202,750
" 2,	1,224,900	878,775	2,103,675	155,450
" 3,	1,062,175	831,725	1,893,900	532,525
" 4,	1,045,775	1,019,100	2,064,875	239,450
" 5,	1,276,450	758,825	2,035,275	299,625
" 6,	1,219,450	1,069,250	2,288,700	123,525
" 7,	820,150	611,250	1,431,400	42,350
	<u>\$7,781,400</u>	<u>\$5,927,575</u>	<u>13,708,975</u>	<u>\$1,595,675</u>

APPROPRIATIONS.

State Tax,	\$6,375 00
County Tax,	13,355 88
Metropolitan Sewer Tax,	10,561 13
Metropolitan Park Tax,	1,977 83
City Budget (including \$8,993 added),	237,017 27
Overlay,	2,861 15
	<u>\$272,148 26</u>
Rate of Taxation, \$17.20 per \$1,000.	
Assessed on resident real and personal estate,	\$199,062 05
" " non-resident real and personal estate,	64,177 93
Assessed on resident bank stock,	1,046 28
" " 3,931 polls at \$2.00 each,	7,862 00
	<u>\$272,148 26</u>
Assessed for street watering,	3,973 71
Number of resident individuals, firms, etc., as-	
essed on property,	1,924
Number of non-resident individuals, firms, etc,	
assessed on property,	780
Total,	<u>2,704</u>
Number of persons assessed for poll tax only,	3,017
" " horses	603
" " cows	188
" " swine	161

VALUE OF PROPERTY EXEMPTED FROM TAXATION.

Houses of religious worship,	\$286,600 00
Literary institutions,	36,000 00
Charitable institutions,	11,025 00
	<u>\$333,625 00</u>

Under authority of Chapter 578, Section 7, of the Acts of 1898, an excise tax was assessed to the Boston & Northern Street Railway Company for 9.135 miles of track operated in the City of Melrose, amounting to \$1,689.06.

Respectfully yours,

FRANK R. UPHAM,

WILLIAM MORSS,

L. F. HINCKLEY,

Assessors.

COLLECTOR'S REPORT.

January 3, 1903.

To the Hon. Board of Aldermen, City of Melrose :

GENTLEMEN : I herewith submit the third annual January report.

	TAX 1902.
Warrant,	\$272,148 26
Additional,	948 26
Interest,	83 13
	<u>\$273,179 65</u>
Abatements,	5,022 44
	<u>\$268,157 21</u>
Paid Treasurer	143,685 63
	<u>\$124,471 58</u>
Uncollected,	

TAX 1901.

Warrant,	\$248,652 39
Additional,	1,217 82
Interest,	3,690 30
	<hr/>
	\$253,560 51
Abatements,	5,799 96
	<hr/>
	\$247,760 55
Paid Treasurer,	233,986 70
	<hr/>
Uncollected,	\$13,773 85

TAX 1900.

Warrant,	\$237,310 57
Additional,	2,837 20
Interest,	4,361 28
	<hr/>
	\$244,509 05
Abatements,	5,601 49
	<hr/>
	\$238,907 56
Paid Treasurer,	236,948 11
	<hr/>
Uncollected,	\$1,959 45

TAX 1899.

Warrant,	\$222,702 39
Additional,	1,640 76
Interest,	4,307 57
	<hr/>
	\$228,650 72
Abatements,	5,566 72
	<hr/>
	\$223,084 00
Paid Treasurer,	222,791 07
	<hr/>
Uncollected,	\$292 93

TAX 1898.

Warrant,	\$215,714 90
Additional,	1,243 81
Interest,	4,795 78

	<hr/>
Abatements,	\$221,754 49
	4,211 73

	<hr/>
	\$217,542 76
Paid Treasurer,	217,542 76

STREET WATERING 1900.

Collections,	\$3,914 78
Paid to Treasurer,	3,914 78

STREET WATERING 1901.

Collected,	\$3,670 44
Paid to Treasurer,	\$3,622 13
Balance,	48 31

Total,	<hr/>
	\$3,670 44

STREET WATERING 1902.

Collected,	\$2,152 33
Paid to Treasurer,	\$1,999 15
Balance,	153 18

Total,	<hr/>
	\$2,152 33

REDEMPTION OF TAKING.

FOR 1898 TAX.

Collected,	\$2,116 12
Paid to Treasurer,	2,116 12

FOR 1899 TAX.

Collected,	\$2,019 15
Paid to Treasurer,	2,019 15

FOR 1900 TAX.

Collected,	\$2,384 88
Paid to Treasurer,	2,384 88

SEWER ASSESSMENTS.

Collected as per last report,	\$100,804 63
Collected in 1902,	13,347 07
	<hr/>
Collections to January 1, 1903,	\$114,151 70
Paid to Treasurer,	\$114,111 22
Balance,	40 48
	<hr/>
Total,	\$114,151 70

WATER RATES 1901.

Collected,	\$48,183 69
Paid to Treasurer,	\$47,733 63
Refunds,	399 31
	<hr/>
Total,	\$48,132 94
Balance,	50 72
	<hr/>
	\$48,183 66

WATER RATES 1902.

Collected,	\$49,390 99
Paid to Treasurer,	\$48,972 90
Refunds,	393 98
	<hr/>
Total,	\$49,366 88
Balance,	24 11
	<hr/>
	\$49,390 99

SIDEWALK ASSESSMENT.

Collected on 1900,	\$130 54
Paid Treasurer on 1900,	130 54
Collected on 1901,	949 53
Paid Treasurer,	949 53
	<hr/>
Non Resident National Bank Tax,	\$845 72
Paid Treasurer,	845 72
	<hr/>
Excise Tax, Boston & Northern St. R. R.,	\$1,689 06
Paid Treasurer,	1,689 06

Respectfully,

JAMES W. MURRAY,

City Collector.

REPORT OF ENGINEERS OF FIRE DEPARTMENT.

To His Honor the Mayor and the Board of Aldermen:

GENTLEMEN:—The chief engineer herewith submits the third annual report of the fire department of the city of Melrose.

It will contain a roll of the several companies and inventory of all apparatus owned by the city and under the supervision of this department; a record of all fires and alarms which have occurred the past year, and causes, with names of owners and occupants, the loss and insurance as nearly as could be ascertained and some recommendations for the ensuing year.

ORGANIZATION.

The department consists of 53 men as follows: Chief; two assistants; one engine company, having ten call men and three permanent men; two hose companies, each having eight call men and one permanent man; one hose company having eight call men, and one ladder company having ten call men and one permanent man.

APPARATUS.

The apparatus is kept in the best possible condition and at present consists of the following: One steam fire engine; four hose wagons; one ladder truck; one coal wagon and ten hand extinguishers.

HORSES.

Of the seven horses at the central station six were disposed of and one transferred to Hose Four on the East Side. These have been replaced by new ones. A horse was also purchased for Hose 3, at the Highlands, to replace one incapacitated for service.

The department now has nine horses in service, all in good condition.

HOSE.

This important branch receives constant care and attention. The past year there has been purchased 800 feet of rubber lined cotton hose. There is on hand 6,900 feet of good hose and 300 feet of poor hose.

FIRE ALARM.

This branch of the service has been maintained in good condition under the care of Superintendent Whidden. The general promptness in giving alarms has aided much in keeping the loss of property at the present low figure.

During the year there have been alarms as follows:

Bell alarms,	38
Still alarms,	17
	—
Total,	55
Value of property exposed to fire,	\$131,299 97
Damage to property " "	15,124 23
Insurance on " " "	99,440 00
Insurance paid on property exposed to fire,	11,344 20
Total loss on " " "	3,780 03
Total appropriation,	10,435 00
Total expenditure,	10,419 74
Balance unexpended,	15 26

For itemized report of expenditures see auditor's report.

RECOMMENDATIONS.

I would recommend the appropriation of \$12,981 for the ensuing year.

A permanent engine man is much needed and I would recommend that one be appointed in accordance with the city charter.

I would also recommend the purchase of a chemical engine. A great many fires, by its aid, could be extinguished without the use of much water and thus save much damage of property.

Hose company number 2, the Wyoming company, has been quartered at the central station during the past year on account of lack of appropriation to quarter it in its own district.

Having no horse, and no appropriation being made to purchase or hire one, this company is obliged to respond without its apparatus. For efficient service it should be equipped with a horse and permanent man and located in the southwest portion of the city.

CONCLUSION.

My acknowledgements are tendered the mayor, and the heads of the several departments, and the members of the police force for their hearty support. To the officers and members of the several companies and the permanent men, I wish to express my appreciation for their promptness in responding to all calls for duty, the support and good will extended me on all occasions and for their effort to sustain the reputation of the department.

Respectfully submitted,

A. WILBUR LYNDE,
Chief Engineer.

ROLL OF FIRE COMPANIES.

STEAMER AND HOSE COMPANY NO. 1, Central Station.

Name	Occupation	Age	Residence	Admitted
Capt. Chas. F. Woodward	Surveyor	33	39 Upham	Sept. 2, 1890
Lieut. Walter M. Barrett	Painter	27	290 W. Emerson	April 6, 1897
Dean T. Stockwell	Permanent man	41	9 Upham	Nov. 3, 1891
J. Waldo Emerson	Permanent man	58	51 Dell ave.	April 2, 1872
Chas. W. Edwards	Permanent man	32	612 Main	April 1, 1892
Thos. B. Stantial	Carpenter	67	15 Winthrop	Dec. 7, 1875
Arthur L. Upham	Carpenter	48	253 First	Aug. 1, 1883
David R. Woodward	Carpenter	35	39 Upham	April 2, 1893
George A. Dean	Expressman	27	73 Essex	Dec. 5, 1899
William B. Clark	Florist	29	Argyle	May 1, 1902
William H. Ripley, Jr.	Clerk	29	24 Lynde	Feb. 2, 1897

HOSE COMPANY NO. 2, Central Station.

Capt. Robert Gibbons.....	Carpenter.....	45	121 Trenton.....	Mar. 3, 1874
Lieut. Chas. F. Doherty....	Barber.....	35	22 Lynde.....	Aug. 7, 1894
Joseph Gibbons.....	Building Mover.....	39	124 Trenton... ..	May 2, 1882
H. W. Simpson.....	Bootmaker.....	34	445 Main.....	July 3, 1899
F. E. Newell.....	Coal and wood.....	42	Pleasant.....	Dec. 5, 1899
M. L. Pullen.....	Drug Clerk.....	30	4 Hurd.....	April 1, 1900
George M. Bayne,.....	Clerk.....	26	Grove.....	

HOSE COMPANY NO. 3, Franklin Street, Melrose Highlands.

Capt. Frank H. Cheever....	Clerk.....	29	894 Main.....	Feb. 5, 1895
Lieut. Wm. R. Holly.....	Carpenter.....	35	24 Sargent.....	Jan. 3, 1899
Leverett D. Newhall.....	Permanent man.....	47	23 Ellsworth av.	Jan. 9, 1885
Fred T. Morrill.....	Boots and shoes.....	23	15 Highland av.	
George C. Burnham.....	Carpenter.....	37	1 Orient Park..	July 5, 1899
Edgar W. Mansfield.....	Painter.....	24	92 Ashland.....	April 3, 1900
Oscar F. Low.....	Clerk.....	25	112 Ashland.....	Aug. 1, 1899
George L. Stewart.....	Carpenter.....	25	36 Albion.....	Aug. 1, 1901
Frank A. Howe.....	Laundry.....	45	8 Chipman ave.	

HOSE COMPANY NO. 4, East Foster Street.

Capt. Chas. E. McKinnon..	Clerk.....	38	159 Laurel.....	May 1, 1890
Lieut. Edward W. Russell..	Engineer.....	30		April 1, 1894
George D. Russell.....	Clerk.....	28	142 Laurel.....	April 1, 1894
Edgar J. Smith.....	Carpenter.....	23	151 Laurel.....	July 1, 1900
Fred S. Boardman.....	Baker.....	26	151 Laurel.....	July 1, 1900
Percy E. Cates.....	Carpenter.....	24	372 Grove.....	Nov. 1, 1902
Frank C. Newman.....	Permanent man.....	26	293 Grove.....	
F. T. Foster.....	Grocer.....	21	272 East Foster	

HOOK AND LADDER COMPANY NO. 1, Central Station.

Capt. Harry R. Norton....	Grocer.....	43	27 E. Emerson..	Mar. 1, 1895
Lieut. William A. Lynde...	Farmer.....	45	529 Lebanon....	Mar. 7, 1876
Robert H. Whidden.....	Permanent man.....	35	26 Winthrop....	Sept. 5, 1890
Curtis S. Gordon.....		64	21 Winthrop....	May 2, 1890
William H. Stewart.....	Carpenter.....	52	36 Albion.....	June 6, 1873
Edward H. Carley.....	Carpenter.....	28	147 Myrtle.....	Jan. 6, 1899
William J. Warren.....	Painter.....	36	187 Grove.....	July 1, 1900
Henry S. Robertson.....	Painter..	35	102 Grove.....	Oct. 7, 1887
Frank I. Storey.....	Painter.....	37	40 Linwood ave.	Jan. 1, 1900
W. Clifford Sargent.....	B't'n C'pl'g Co.	44	362 Washington	Dec. 1, 1901
Charles A. Page.....	Undertaker's			
	assistant	36	41 Winthrop....	Jan. 1, 1902

STATEMENT OF FIRES AND ALARMS FOR THE YEAR ENDING
JANUARY 31, 1903.

February 7, 1902; box 53; Heywood avenue; owner F. E. Hanson; occupant F. E. Hanson; value of building and contents, \$3,985.50; damage, \$3,000; insurance \$3,000; insurance paid, \$2,279.

February 9; box 24; Lynde street; owned by E. R. Ormsby, occupants, Barrett and Batt; value of building and contents, \$4,000; damage, \$662.50; insurance, \$2,500; insurance paid, \$662.50.

February 10; box 28; Spear street; owner, Melrose Savings Bank; occupant, James Hallahan; value of building and contents, \$1,000; insurance, \$800.

February 15; box 28; Spear street; owner, Thomas Spear; occupant, John Ring; value of buildings and contents, \$1,200; insurance, \$900.

February 21; box 54; Franklin street; owner, J. E. Rogers; occupant, Winsby & Hensby; value of building and contents, \$6,000; damage, \$150; insurance, \$4,000; insurance paid, \$150.

February 23; box 51; Reading Hill avenue; occupant, Henry C. Durgin.

March 16; box 32; Main street; owner, A. D. Maclachlan; occupant, Quincy market.

March 26; still alarm; Upham street; woods and grass.

March 30; still alarm; 58 Upham street; owner, G. W. Farnsworth estate; occupant, J. W. Stearns; value of buildings and contents, \$4,700; insurance, \$3,500.

April 4; box 55; Melrose street; woods and grass.

April 5; box 54; Franklin street; owner, A. E. Rogers; occupant, Winsby & Hensby; value of building and contents, \$6,000; damage, none; insurance, \$4,000; insurance paid; none.

April 5; still alarm; Wyoming park; woods.

April 17; box 23; Hancock street; woods.

April 17; still alarm; Hancock street; woods.

April 19; Wyoming avenue; woods.

April 21; still alarm; woods.

May 11; box 23; Forest and Lebanon streets; owner, Mrs. Ann Elms; occupant, Levi Elms; value of building

and contents, \$6,200; damage, \$4,400; insurance, \$3,840; insurance paid, \$3,040.

May 12; box 41; owner, Frank R. Upham; occupant, Mrs. LaFave; value of building and contents, \$1,600; damage \$100; insurance, \$1,500; insurance paid, \$50.

May 13; still alarm; Franklin street; owner, A. E. Rogers; occupant, Winsby & Hensby; value of building and contents, \$6,000; insurance, \$4,000; no damage.

May 14; box 32; Main street; owner, A. J. Burnett; occupants, H. C. Page and Mr. Hartnett; value of building and contents, \$7,000; insurance, \$3,300.

May 18; box 25; Main street; woods.

May 20; box 32; Main street; owned and occupied by Henry Lynde; value of building and contents, \$6,500; damage, \$40; insurance, \$4,450; insurance paid, \$40.

May 30; still alarm; Maple street; owner, Mrs. Dan Finnegan.

June 2; box 52; Sargent street; owner, G. W. Woodland; value of building and contents, \$1,525; insurance, \$3,500.

June 17; still alarm; Greenwood street; owner, Charles Stebbins; occupant, E. A. Litchfield; value of building and contents, \$300.

June 22; box 47; School street; owner and occupant, W. A. Barrett; value of building and contents, \$2,200; damage \$10; insurance, \$1,200; insurance paid, \$10.

June 25; box 41; Cass street; owner, Mrs. A. Kelley; occupant, E. D. Prescott; value of building and contents, \$3,400; damage, \$60; insurance, \$2,500; insurance paid none.

July 4; box 54; Belmont street; owner, Estate of A. V. Lynde; value of building and contents, \$100; damage, \$50; insurance, \$100; insurance paid, none.

July 4; still alarm; Belmont street; owner, estate of A. V. Lynde.

July 17; box 47; Upham street; owner, W. B. Crawford; occupant, W. B. Crawford; value of building and contents, \$3,750; damage, \$800; insurance, \$2,800; insurance paid, \$727.45.

July 20; box 32; rear 384 Main street; owner, Mrs. E. H.

Curtis; occupant, J. W. Burns; value of building and contents, \$1,300; insurance, \$700.

August 7; box 55; Ashland place; owner, John L. Keen; value of building and contents, \$1,750.

August 10; still alarm; Tremont street; owner, S. E. Benson.

September 7; box 53; 58 Frost avenue; owner and occupant, Richard Kelley; value of buildings and contents, \$3,800; damage, \$515; insurance, \$2,300; insurance paid, \$515.

September 16; box 29; 198 East Foster street; owner, Mrs. E. S. Guppy, occupant, P. H. Leahy; value of building and contents, \$6,300; damage, \$1,669; insurance, \$4,000; insurance paid, \$1,543.75.

September 24; box 24; false.

September 30; box 36; Grove street; H. W. Shaw and Mr. Bowes; value of building and contents, \$4,300; damage, \$890; insurance, \$3,000; insurance paid, \$490.

October 8; still alarm; Franklin street; owner and occupant, John Philpot. October 8; box 54; in Greenwood, out of town; owner and occupant, S. H. Hellen.

October 22; still alarm; Farwell street; woods.

October 31; still alarm; West Hill avenue; woods.

November 4; box 24; Grove street; owner, Frank R. Upham; occupants, J. Smith and O. Ham; value of building and contents, \$2,600; damage, \$950; insurance, \$2,250; insurance paid, \$763.

November 15; box 24; false.

November 15; still alarm; Bellevue avenue; owner F. P. Shumway; value of building and contents, \$2,500; insurance, \$2,000.

November 16; still alarm; Franklin street; owner, George Chipman; occupant, Frank Middleburg; value of buildings and contents, \$11,200; insurance, \$9,000.

November 18; box 55; Tremont street; city park; grass.

November 23; still alarm; Boston Rubber Co., woods.

November 24; box 48; Emerson place, owner Dr. Annie M. Selee; occupant, William Kirmes; value of building and contents \$4,500; damage \$500; insurance, \$3,000.

December 6; box 38; Sanford street; owned and occupied by Mrs. Annie Brown; value of building and contents, \$1,300; damage, \$83; insurance, \$1,000; insurance paid, \$83.

December 11; box 42; Grove street; owned and occupied by M. S. Demeritt; value of building and contents, \$4,500; damage, \$100; insurance, \$5,000; insurance paid, \$60..

December 19; box 51; Main and Franklin streets; owned by Woodman estate; occupied by Charles Larrabee; value of building and contents, \$11,089.47; damage, \$1,404.73; insurance, \$8,700; insurance paid, \$846.

December 24; still alarm; Maple street; owner and occupant, Dennis Lucey; value of building and contents, \$1,400.

January 2, 1903; box 36; owner, W. E. Knights; occupant, J. P. Whalen; value of building and contents, \$1,900; damage, \$235; insurance, \$1,500; insurance paid, \$85.

January 8; box 48; Vinton street; owner, F. H. Boyle; value of building and contents, \$2,000; insurance, \$1,600.

SCHEDULE OF PROPERTY.

FIRE ALARM, STOCK AND TOOLS.

One tool chest,	\$1 00
Two hammers,	50
Two pairs climbers,	3 50
Three pairs wire cutters,	2 00
Two straps and vises,	5 00
Four screw drivers,	1 00
Two bit stocks,	3 00
One axe,	1 00
Fifteen bits, in sizes,	7 00
One extension ladder,	18 00
One 12-ft. ladder,	10 00
One rope,	50
Four files,	40
Three pike poles,	1 50
Two rules,	50
One extension bit,	50
One drill,	2 50

Twelve drills, in sizes,	\$1 20
One bench vise,	75
Two 5-ft step ladders,	3 00
One chisel,	50
One belt,	50
One blow torch,	1 75
One pick axe,	1 00
Two shovels,	1 00
One crow bar,	1 00
One tree trimmer,	2 00
One monkey wrench,	75
Two saws,	1 00
One set tackles,	5 00

FIRE ALARM SUPPLIES.

One-half mile No. 9 covered iron wire
 One-fourth mile No. 9 iron wire (new)
 Three miles No. 9 iron wire, second hand
 One wire reel
 Fifteen cross trees, second hand
 One hundred 2-pin cross arms, new
 Twenty-five 2-pin cross arms, second hand
 Fifty Dup. Gr. glass insulators
 Two lbs. solder
 One 2-pin house bracket
 Two 2-pin cross arm irons
 Ten $7\frac{1}{2}$ lagg screws
 Seventy-five $7\frac{5}{8}$ lagg screws
 One-lb. washers
 Fifty locust pins
 Twenty-five locust brackets
 Fifteen brace irons
 " porcelain fuse boxes
 Fifty 1-am. fuses
 Twenty-four porcelain insulators
 One-half spool fuse wire
 One 4-post cut out
 Fifteen Sampson jars

One F. A. box wheel, No. 44
Six glass fuse protectors
Twenty-five ft. tubing
One rubber syringe
Six bottles oil
Eight state fuse boxes
Six keg boxes
Two lanterns
Two relays for testing
Three striker springs
One hydrometer
Two brake keys
Ten ground irons
Two bottles acid
One gong pan
Two gongs
Two guides for storage
Three roof irons
Twelve hard rubber hooks
Twenty-five victor insulators
One-half pound spikes
Twelve 3-inch lagg screws
Twenty-five key box glasses
One-pound nails
Ten paint brushes
One dust pan and brush
One F. A. stencil
Three boxes caps
One-half reel No. 16 office wire
Fifteen feet No. 18 office wire
One spool No. 24 office wire
One pound tape
One hundred porcelain cleats
One magneto
Ten work cleats
Twenty-five F. A. box keys
One bunch keys
Two brooms
One oil can
One carboy acid

HOOK AND LADDER.

One H. & L. truck,	\$1,200 00
Three horses, bays,	750 00
Three harnesses for same,	200 00
Three street blankets,	12 00
Four stable blankets,	6 00
One pole and hitch for two horses,	100 00
Thirteen pairs mittens,	2 25
Two 3-gallon tanks and chargers,	40 00
Two crow bars, one doz. openers, 5 pitch forks (part of truck)	
Six brooms,	2 00
One hundred ft. 1-inch rope,	5 00
Two 12-ft plaster hooks,	4 00
Four 5-ft. plaster hooks (part of truck)	
Six axes (part of truck)	
One sponge,	1 00
One pair wire cutters,	5 00
One Bangor extension ladder, 55 ft.,	125 00
One Somerville extension ladder, 40 ft.,	80 00
Ten ladders, 10, 18, 21, 25, 28, 30, 32-ft., two roof ladders, 15, 21-ft., one emergency lad- der, 16-ft. extension,	215 00
One pair lead bars,	3 00
Four extra whipple-trees,	2 00
Eight lanterns, (part of truck)	
Twelve ladder dogs,	6 00
Ten rubber coats,	30 00
Two shovels,	1 00
Two chimney hooks and chain,	12 00
Two hammers,	50
Two pails,	50
Two dog belts,	1 00
One 20-ft hook and pole,	3 00
Four pike poles,	6 00
One bar for leaders,	2 00
Three hundred ft. of hose,	30 00

FIRE ALARM; BATTERY ROOM.

Storage battery system complete, of six circuits in switch board and five circuits in fire alarm. One five-circuit repeating machine with wires, relays, test keys, lightning arresters, grounds, fuses and all necessary connections.

City hall tower, one striker; hose 4, one striker; central station, two gongs, one indicator and two gongs not in use. Highlands church, one striker; hose 3, combination gong and indicator.

The fire alarm consists of five circuits of about sixty miles of wire, with

Thirty-six street boxes

Three tower strikers

Three gongs

One school box

Two indicators

Two gongs not in use

Total value of fire alarm, stock and fixtures, \$16,000 00

ENGINE COMPANY NO. 1.

Four horses,	\$950 00
Two sets double harness,	160 00
One steam fire engine, tools, etc.,	3,000 00
One 2-horse hose wagon,	450 00
Two chemical tanks, two lanterns, one axe,	60 00
One bar, one hook, two gates and wrench,	28 00
Hose ropes and spanners,	5 00
One deluge set,	125 00
2500 ft. good hose, two pipes,	16 00
Condemned hose,	4 00
Four iron beds with bedding,	60 00
Two chiffoniers, six chairs, table,	30 00
Eight cuspidors, 10 rubber coats, six hats,	72 00
Two sets harness hangers,	30 00
Eight pairs mittens,	4 00
One pung, street blankets, two stable blankets,	25 50

HOSE NO. 2.

One 1-horse hose wagon,	\$300 00
One single harness,	60 00
One single harness hanger,	15 00
1,400 ft. hose,	700 00
150 ft. poor hose,	3 00
Two chemical tanks,	40 00
Two gates,	20 00
Three lanterns,	4 50
Four hats,	12 00
Eight rubber coats,	24 00
Hose ropes,	2 00
Spanners,	3 00
Ten chairs,	5 00
Three pairs mittens,	75
One street blanket,	3 00
One pole,	4 00
Two whipple-trees,	3 00

HOSE NO. 3.

One horse,	\$250 00
One 1-horse wagon and harness,	480 00
Two lanterns, two chemical tanks,	43 00
Two pipes, street blanket,	54 00
Six hats, two hydrant wrenches,	20 00
Two gates, one monkey wrench,	20 75
Eight rubber coats and eight hose ropes,	27 00
Ten spanners, one broom,	3 50
One pung, two brushes, one currie comb,	26 50
One fork, one pail,	1 00
One lawn mower, one edge cutter,	6 00
1,500 ft. 2½-inch hose,	750 00
One hundred ft. condemned hose,	3 00
Five chairs, one wagon jack,	3 00
Two sponges, one chamois skin,	1 00
Three-fourths ton coal, 500 lbs. hay,	12 50
Ten bushels oats, one coat pad, one shawl,	4 75
Fifty ft. garden hose, two beds and bedding,	38 00
Three chairs, one chiffonier,	9 00
One carpet, two lamps,	2 75

HOSE NO. 4.

One horse,	\$200 00
One single harness,	60 00
One hose wagon with axe, bar and hook,	450 00
One sled reel,	10 00
1,300 ft. good hose,	750 00
Fifty ft. bad hose,	1 00
Forty ft. garden hose,	3 00
Two hand chemical tanks,	30 00
Seven rubber coats, four fire hats,	33 00
Three pr. mittens, three spanners,	3 75
Four hose ropes, two nozzles,	20 75
Two lanterns,	4 00
One street blanket, one stable blanket,	5 75
Two hydrant gates,	20 00
One iron bed, one mattress,	7 00
One pair pillows, eight pr. slips,	2 50
Nine sheets, one spread,	6 00
One pr. blankets, eight lamps,	6 00
Two brooms, one duster,	2 00
One scrub brush, one mop,	70
Two stoves, one stove shovel,	10 50
One coal shovel, one snow shovel,	55
Two water pails,	40
Three-fourths ton coal,	7 50
One bale straw,	1 75
Fifteen pounds soda,	60
One gallon vitriol,	50
One-half gallon harness oil,	50

Report of the Chief of Police.

OFFICE CHIEF OF POLICE,
MELROSE, February 1, 1903.

To the Honorable the Mayor of the City of Melrose: In accordance with the requirements of the city ordinance, I have the honor to submit for your consideration my third annual report of the doings of the Police Department for the year ending January 31st, 1903.

FINANCIAL STANDING.

Appropriations for the year 1902.

Salaries:

Chief and regular officers,	\$11,037 50
Special officers and vacations,	735 00
Contingent and care of teams,	575 00
Transferred from court fees to contingent,	150 00
	<hr/>
	\$12,497 50

Balance in contingent,	3 57
“ “ special and vacations,	39 98
Expended for the year,	12,453 95
There has been received from court fees and turned over to the city treasurer,	314 09

Offences for which cases have been brought into court:

Assault,	15
Adulterated butter,	1
Assault with dangerous weapon,	3
Adultery,	2
Breaking and entering and larceny,	4
Being present where gaming implements were found,	3

POLICE REPORT.

193

Bastardy,	1
City ordinance,	2
Carnal abuse,	1
Diverting electric current,	1
Default warrant,	2
Drunkenness,	75
Disturbing the peace,	3
Disorderly house,	1
Destroying property,	2
Fornication,	1
Fast driving,	1
Idle and disorderly,	3
Keeping and exposing,	1
Keeping unlicensed dog,	1
Larceny,	7
Non-support,	6
Neglected children,	4
Obtaining money under false pretense,	1
Stealing,	1
Stubborn children,	4
Search warrants,	6
Threats,	3
Trespass,	1
Vagrants,	2

MISCELLANEOUS REPORT.

Accidents reported,	3
Assisted out of town officers,	2
Accidental death reported to family,	1
Attempted suicide reported,	1
Suicide reported,	1
Arc lights reported out (small)	388
“ “ “ (large)	98
Board of Health notices put up,	38
Bicycles recovered,	2
“ found and returned to owners,	15
Complaints attended to,	125
Covers to catch basins reported off,	1
Doors and windows found unlocked and secured,	118

Disturbances suppressed,	30
Dogs killed,	27
Defects in streets reported,	63
Fire alarms,	11
Fires attended,	38
Fires (officers at)	116
Fires discovered and put out,	7
Gas leaks reported,	8
Lamp on fire in store and removed,	1
Lanterns hung in dangerous places,	38
Messages delivered,	12
Notices delivered,	2,074
Obstructions removed from street,	3
Persons assisted home,	12
" " to the hospital,	5
" conveyed to Poor Farm,	1
" taken to hospital in ambulance,	31
" " " at Danvers,	8
" " " " Westboro,	3
" " " " Austin Farm,	1
Raids,	2
Runaway horses stopped,	10
" boys found and returned home,	2
Stray children found and taken home,	8
Stray horses found and returned to owners,	3
Stolen property recovered,	\$195
Sick horses cared for,	5
Summons served,	37
Water breaks reported,	39
Wires reported burning trees,	29
" " down,	25
Wire pole broken, reported,	1
Wash out in street,	1
Wagon calls for prisoners,	67
Value of property found and given to owners,	\$210

To the average citizen the duties and employment of a police officer appear to consist chiefly in patrolling his route, and arresting such persons as may be violating the law. This is quite natural, for most of our citizens see the

officer only as he appears on his route. They know nothing of his duties, perhaps do not know that he has any others. It is only when results become apparent that the public realizes that much must have been done which did not appear on the surface. It is very often supposed that when matters are quiet at the police station and the criminal dock is empty, that there is a lack of official supervision and police vigilance. The contrary, however, would appear the better reason; for a light criminal docket may indicate that vigilance which prevents the commission of crime, just as much as a full docket shows its detection and punishment. I believe it is an evidence of good order when the average of crimes committed does not increase in proportion to the increase of population. This is true in this city, and it follows that the work of the police department is to be measured as much by the prevalence and maintenance of good order and quiet as by the number of arrests made. It is a good sign when there is nothing doing at the police court.

CONCLUSION.

In conclusion, I wish to extend my sincere thanks to your Honor, also to every officer in the department for the cordial support they have rendered the past year, also in the manner they have attended to their official duties.

Respectfully submitted,

FRANK M. McLAUGHLIN,

Chief of Police.

REPORT OF THE CEMETERY COMMITTEE.

To the Honorable the Mayor and Board of Aldermen:

GENTLEMEN:—We submit herewith our report for the year ending January 31, 1903.

The expenses for the year have been as follows:

For labor as per pay rolls, including superintendent's salary,	\$3,951 25
Books, printing, stamps and telephone,	62 28
Catch basins, frames and grates,	16 00
Cement and lime,	47 42
Drain pipe,	7 52
Dressing,	132 37
Express and freight,	14 70
Grading soldiers' monument lot,	75 00
Grass and lawn seed,	24 42
Grave and lot markers and numbers,	37 50
Gravel, loam and sods,	559 54
Hardware and tools,	40 80
Plants and shrubs,	64 88
Repairing and sharpening tools,	23 30
Salary of clerk,	99 20
State vaults,	49 50
Sundries.	11 28
Water closets, office building,	127 50
Water pipe and fittings,	111 36
	<hr/>
	\$5,455 82
Receipts more than expenditures,	206 20
	<hr/>
	\$5,662 02

Receipts as follows, for and on account of:

Lots sold,	\$2,668 75
Care of lots,	1,592 11
Interments,	635 00
Single graves,	203 00
Foundations put in,	169 00
Labor,	231 16
Vaults,	50 00
Grave markers,	32 50
Use of tomb,	40 00
Dressing,	26 50
Wood sold,	4 00
Flowers sold,	4 00
Screen sold,	6 00
	<hr/> \$5,662 02

Total amount expended to January 31, 1902, including original purchase of land, and also that of Pratt farm,	\$87,430 93
Expended 1902,	5,455 82
	<hr/> \$92,886 75

RECEIPTS.

From all sources to January 31, 1902, \$79,372 55	
Received in 1902,	5,662 02
	<hr/> \$85,034 57

Respectfully submitted,

JOHN P. DEERING,

OSCAR F. FROST,

L. HENRY KUNHARDT,

Cemetery Committee.

City Clerk's Report.

MELROSE, Mass., May 22, 1903.

To His Honor, the Mayor, Melrose, Mass.:

DEAR SIR: In compliance with the city ordinances, I have the honor to transmit herewith the annual report of the receipts of the city clerk's department, the same being for the municipal year ending January 31, 1903, the payment of the same to the proper authorities, the vital statistics of the city of Melrose for 1902, with the assessed polls and voters.

Respectfully yours,

W. DEHAVEN JONES,

City Clerk.

FEES RECEIVED IN CITY CLERK'S DEPARTMENT, 1902, FOR FINANCIAL YEAR FEBRUARY 1, 1902—JANUARY 31, 1903.

Returning births, marriages and deaths, . . .	\$209 00
Intention of marriages, 137 @ 50 cents, . . .	68 50
Mortgages, 89 @ 75 cents,	66 75
Releases, sales, etc., 35 @ 25 cents,	8 75
Hurdy gurdy licenses, 20 @ \$1,	20 00
Fireworks licenses, 12 @ \$2,	24 00
Entertainments and dances, 25 @ \$1,	25 00
Junk licenses, 6 @ \$10 and 1 @ \$5,	65 00
Second hand article store license,	3 00
Bootblack license, 1 @ \$1,	1 00
Auctioneers' licenses, 16 @ \$2,	32 00
Express and job licenses, 20 @ \$1,	20 00
Drivers' licenses, 10 @ \$1,	10 00
Carriage licenses, 10 @ \$1,	10 00
Copies of death certificates,	1 00

\$564 00

CITY CLERK'S REPORT.

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April 11, 1902, paid city treasurer,	\$209 00	
April 30, 1902, " " "	35 00	
June 7, 1902, " " "	79 75	
June 20, 1902, " " "	64 00	
June 21, 1902, " " "	12 25	
Aug. 4, 1902, " " "	50 00	
Sept. 30, 1902, " " "	42 50	
Oct. 12, 1902, " " "	7 50	
Feb'y 2, 1903, " " "	64 00	
	<hr/>	\$564 ⁰⁰ 00

DOG LICENSES.

W. DE HAVEN JONES, City Clerk, Melrose, in account with
MIDDLESEX COUNTY TREASURER.

482 male licenses @ \$2 each,	\$964 00	
55 female licenses @ \$5 each,	275 00	
2 breeders' licenses @ \$25,	50 00	
	<hr/>	\$1,289 00
539 licenses less 20 cents each,	107 80	
	<hr/>	\$1,181 20

June 4, 1902, by check to county treasurer,	\$559 00	
Dec. 1, 1902, " " " "	622 20	
	<hr/>	\$1,181 20

BIRTHS.

Whole number recorded in 1902,	279	
" " " 1901,	292	
Decrease from last year,	13	
	<hr/>	
Number of males born,	156	
" females born,	123	
	<hr/>	279
Number of twin births,	2	

MARRIAGES.

Number of intentions filed,	138	
Both parties residents of Melrose,	72	
But one party a resident of Melrose,	66	
	<hr/>	138

Number of marriages recorded,		147
Both parties residents of Melrose,	72	
But one party a resident of Melrose,	67	
Neither party a resident of Melrose,	8	
	<hr/>	147
First marriage of	263	
Second " "	29	
Third " "	2	
	<hr/>	294
Age of oldest groom,	63	
" " youngest groom,	20	
" " oldest bride,	56	
" " youngest bride,	16	

DEATHS.

Number of deaths for 1902,		209
" " " of males,	99	
" " " of females,	110	
	<hr/>	209
Number of deaths of persons:		
Under 1 year of age,	35	
From 1 to 5 years,	13	
" 5 " 10 "	5	
" 10 " 20 "	10	
" 20 " 30 "	13	
" 30 " 40 "	21	
" 40 " 50 "	19	
" 50 " 60 "	17	
" 60 " 70 "	23	
" 70 " 80 "	33	
" 80 " 90 "	20	
	<hr/>	209
Oldest male, 88 years, 11 months and 17 days.		
Oldest female, 88 years, 3 months and 18 days.		
Burial permits issued.		209

ASSESSED POLLS AND VOTERS.

	Polls.	Males.	Voted.	Females.	Voted.
Ward 1.....	478	385	237	45	0
Ward 2.....	606	418	190	39	0
Ward 3.....	529	391	283	54	6
Ward 4.....	468	356	248	68	0
Ward 5.....	536	349	153	18	1
Ward 6.....	707	462	319	38	0
Ward 7.....	597	377	228	13	0
Totals.....	3,931	2,738	1,658	275	7

The following is a statement of the votes cast in the several wards of the city, November 4, 1902, for Governor of the Commonwealth.

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
John L. Bates, Republican.....	200	179	170	191	138	212	143	1,233
Michael T. Berry, S. L. nom. paper	0	1	0	0	3	0	1	5
John C. Chase, Socialist.....	10	18	8	8	12	15	18	89
William A. Gaston, Democratic....	62	71	122	66	88	115	94	618
William H. Partridge, Prohibition.	5	5	3	4	3	5	2	27
Blanks	2	5	5	2	9	10	8	41
Totals.....	279	279	308	271	253	357	266	2,013

The following is a statement of the votes cast in the several wards of the city, December 11, 1902, for mayor, aldermen-at-large, school committee and ward aldermen, etc.

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
Sidney H. Buttrick, Republican,								
M. L. N. P.....	151	107	160	143	84	168	144	957
Francis S. Hesseltine, Citizens Ind.								
Can. N. P.....	78	82	119	100	66	148	82	675
Blanks	8	1	4	5	3	3	2	26
Totals.....	237	190	283	248	153	319	228	1,658

ALDERMEN-AT-LARGE.

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
Albert A. Day, M. L. N. P.....	139	121	147	152	90	155	108	912
Stephen W. Harvey, Rep.....	121	89	148	122	96	173	117	866
Eugene H. Moore, Rep.....	154	140	192	149	94	208	159	1,096
Frank H. Torrey, Rep., M. L. N. P.,	125	118	162	201	101	201	139	1,047
Blanks	172	102	200	120	78	220	151	1,043
Totals.....	711	570	849	744	459	951	684	4,968

SCHOOL COMMITTEE, For Three (3) Years.

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
Susan F. Flanders, Rep., M. L. N. P.,	151	116	168	142	99	180	128	984
Edward W. Frentz, Ind. Nom.....	89	77	147	124	70	142	85	734
George H. Hill, Rep., M. L. N. P.,	168	124	170	177	111	199	134	1,083
John E. Marshall, Rep., M. L. N. P.,	144	118	151	165	96	190	157	1,021
Blanks	159	135	231	136	86	246	180	1,173
Totals.....	711	570	867	744	462	957	684	4,995

WARD ALDERMEN.

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
James B. Dillingham, Rep., I. N. P.,	82	...	...	...	...	...	...	...
Charles Elwell French, Rep.....	175	...	...	...	...	...	...	...
William A. Morse, Rep.,.....	150	...	...	...	...	...	...	...
Blanks	67	...	...	...	...	...	...	474
Oliver B. Munroe, Rep., M. L. N. P.,	...	146	...	...	...	...	...	...
Warren S. Towner, Rep., M. L. N. P.,	...	152	...	...	...	...	...	...
Blanks .....	...	82	...	...	...	...	...	380
Albert B. Franklin, Rep.....	...	...	211	...	...	...	...	...
Daniel E. Gibson, Rep.....	...	...	208	...	...	...	...	...
Blanks .....	...	...	147	...	...	...	...	566
Allan H. Bearse, Rep.....	...	...	...	83	...	...	...	...
William Andrews Dole, M. L. N. P.,	...	...	...	164	...	...	...	...
Julian C. Woodman, Rep., M. L. N. P.,	...	...	...	176	...	...	...	...
Blanks .....	...	...	...	73	...	...	...	496
Edward S. Page, Rep.....	...	...	...	...	118	...	...	...
Lowell F. Wentworth, Rep.....	...	...	...	...	129	...	...	...
Blanks .....	...	...	...	...	59	...	...	306
Aaron Hill, Jr., Rep..	...	...	...	...	...	245	...	...
William H. Woodman, Rep.....	...	...	...	...	...	238	...	...
Blanks .....	...	...	...	...	...	155	...	638
Andrew J. Burnett, Rep.....	...	...	...	...	...	...	194	...
Eben M. Taylor, Rep.....	...	...	...	...	...	...	165	...
Blanks .....	...	...	...	...	...	...	97	456
	474	380	566	496	306	638	456	3,316

LICENSE QUESTION.

	Wards							Totals.
	1	2	3	4	5	6	7	
Yes	37	30	58	33	23	71	89	341
No	186	150	202	198	120	214	132	1,202
Blanks	14	10	23	17	10	34	17	125
Totals.....	237	190	283	248	153	319	228	1,658

SURFACE DRAINS QUESTION.

	Wards							Totals.
	1	2	3	4	5	6	7	
Yes	144	110	170	103	83	174	148	932
No	53	56	76	102	50	88	52	477
Blanks	40	24	37	43	20	57	28	249
Totals.....	237	190	283	248	153	319	228	1,658

LICENSE QUESTION BY YEARS.

Years.	Yes.	No.	Blanks.	Totals.
1890	53	288	—	—
1891	134	613	219	966
1892	60	293	34	387
1893	233	742	146	1,121
1894	247	902	193	1,342
1895	220	729	146	1,095
1896	261	995	234	1,490
1897	341	1,011	218	1,590
1898	321	1,163	207	1,691
1899	283	1,202	236	1,721
	City.			
1900	362	1,581	205	2,148
1901	292	1,326	199	1,817
1902	341	1,202	125	1,658

Respectfully submitted,

W. DeHAVEN JONES,

City Clerk,

LIST OF JURORS

IN THE

CITY OF MELROSE,

As prepared by the Board of Registrars of Voters,
January 20, 1903.

HERBERT A. MARSH, Chairman,
VICTOR C. KIRMES,
EDWIN L. CRAGIN,
W. DEHAVEN JONES, Clerk,

Board of Registrars of Voters.

Approved by the Board of Aldermen, February 2nd, 1903.

WARD 1.

Addison, John H., 58 Ferdinand street.....Jeweler
Batchelder, Harry A., 41 North avenue.....Book-keeper
Bosworth, Louis H., 734 Franklin street.....Real Estate
Carrie, William A., 18 York terrace.....Printer
Church, Charles H., 242 Tremont street.....Clerk
Cragin, Simeon, 28 Union street.....Book-keeper
Curry, Robert H., 109 Highland avenue.....Plumber
Fawcett, Winthrop S., 22 Greenwood street.....Salesman
Fowkes, John H., 33 Sewall Woods road.....Mattresses
Gibson, Joseph, 35 Winthrop place.....Painter
Houdlette, Marcellus R., 890 Franklin street...Iron & Steel
Maine, William S. B., 31 Botolph street.....Artist
Morse, William A., 15 Auburn place.....Secretary
Munn, Thomas J., 49 South avenue.....Watch Maker
Robinson, Samuel B., 245 Tremont street.....Retired
Serra, Julius A., 28 Warwick road.....Barber
Somes, Rinaldo R., 271 Tremont street.....Salesman
Tobey, David A., Chaska avenue.....Banker
Twombly, Albro J., 106 Ashland street.....Stable Keeper
Woodward, Clarence E., 141 Walton park.....Salesman

WARD 2.

Anderson, George P., 802 Main street.....Engine Supplies
 Chisholm, Henry, 68 Melrose street.....Salesman
 Cobb, Wilbur F., 177 Bellevue avenue.....Trucking
 Cook, Orange H., 150 Green street.....Watchman
 Dunton, Aubrey W., 43 Batchelder street.....Printer
 Eastman, Walter A., Short street.....Clerk
 Fowler, Charles N., 996 Main street.....Window Shades
 Kunhardt, Lewis Henry, 303 Franklin street.....Surveyor
 Littlefield, Homer S., 65 Green street.....Contractor
 Messenger, Charles A., Jr., 31 Ashland street.....Clerk
 Page, Oscar E., 36 Batchelder street.....Agent
 Provandie, Herbert F., 220 Porter street.....Inspector
 Sawyer, Calvin W., 997 Main street.....Insurance
 Shepard, Chester B., 92 Franklin street.....Silversmith
 Simonds, John, 7 Albion street.....Farmer
 Smith, Alden B., 143 Green street.....R. R.
 Smith, Walter E., 129 Rowe street.....Bicycles
 Tuttle, Alton M., 33 Highland avenue.....Nursery Stock
 Wells, Victor E., 91 Linden street.....Grocer
 Worth, Henry W., 138 Porter street.....Farmer

WARD 3.

Briry, William S., 62 Circuit street.....Druggist
 Bucknam, George C., 85 Cleveland street.....Retired
 Caldwell, Edward M., 167 Florence street.....Agent
 Casey, Neil S., 93 Maple street.....Florist
 Curran, Peter J., 56 Maple street.....Barber
 Doherty, John T., 61 Tappan street.....Brass
 Gibbons, Robert, 121 Trenton street.....Carpenter
 Gibson, Daniel E., 117 Florence street.....Real Estate
 Hoffman, Francis W., 44 Charles street.....Clerk
 Irving, Charles W. D., 182 Trenton street.....Salesman
 Johnson, Rynard, 15 Baxter street.....Carpenter
 Keating, John J., 40 Hurd street.....Gents' Furnishings
 Little, Arthur M., 157 Trenton street.....Clerk
 Page, Joel C., 136 Vinton street.....Salesman
 Pendleton, Clifton A., 179 Trenton street.....Clerk
 Rockwood, Charles H., 51 Cleveland street.....Clerk

Simpson, Charles A., 120 Trenton street.....Book-keeper
 Smith, David, 168 Florence street.....Retired
 Smith, Warren F., 30 Baxter street.....Mason
 Whitcomb, Square L., 59 Sanford street.....Gas

WARD 4.

Babson, George E., 155 Porter street.....Clerk
 Boerum, Henry H., 26 Hillside avenue.....Clerk
 Buttrick, Charles H., 87 Essex street.....Salesman
 Cassell, James P., 104 Tremont street.....Laborer
 Corson, Frederick U., 555 Lebanon street.....Carpenter
 Currier, Arthur C., 535 Lebanon street.....Carpenter
 Dempsey, William R., 22 East street.....Shoes
 Dew, George W., 82 Lake avenue.....Painter
 Fernald, Frank A., 37 East street.....Book-keeper
 Gordon, Curtis S., 21 Winthrop street.....Janitor

WARD 4.

Howard, Frank G., 173 Porter street.....Accountant
 Leonard, Henry A., 499 Lebanon street.....Real Estate
 Lothrop, Ellsworth F., 121 Myrtle street.....Paints & Oils
 McIntyre, James, 560 Lebanon street.....Retired
 Murphy, David G., 106 Tremont street.....Shoemaker
 Pulley, James M., 33 Porter street.....Cutter
 Seaver, Walter L., 289 Porter street.....Collector
 Stebbins, Charles H., 128 Myrtle street.....Barber
 Wheeler, Charles O., 45 Essex street.....Insurance
 Wilson, Thomas, 362 Upham street.....Painter

WARD 5.

Bowker, Joseph C., 25 Chestnut street.....Retired
 Bunce, Francis M., 412 Pleasant street.....Grocer
 Coalfleet, James H., 32 Wyoming avenue, W.....Carpenter
 Dearborn, George H., 315 Main street.....Newspaper
 Ehler, Herman F., 391 Pleasant street.....Retired
 French, Alfred H., 1 Grundy street.....Reporter
 Gabriel, Paul J., 380 Washington street.....Gilder
 Glines, Arthur H., 5 Grundy street.....Machinist
 Grundy, Edmund L., 18 Cottage street.....Book-keeper

Hawkes, Thomas J., 25 Russell street.....Barber
 Jones, Marcello B., 190 Washington street.....Salesman
 LeLacheur, George P., 17 Adams street.....Salesman
 Owen, Charles S., 97 Trenton street.....Grocer
 Phinney, Otis K., 52 Adams street.....Produce
 Sircom, Richard H., 314 Main street.....Manufacturer
 Stevens, George H., 70 Trenton street.....Real Estate
 Stevens, George S., 25 Ashmont street.....Insurance
 Twitchell, Union B., 30 Francis street.....Furniture
 Welch, Charles S., 290 Washington street.....Fish Dealer
 Woodbury, Merton G., 14 Wyoming avenue, E...Salesman

WARD 6.

Ames, Benjamin, 7 Gooch street.....Carpenter
 Berry, William A., 110 Grove street.....Cook
 Carr, George W., 220 Grove street.....Salesman
 Chisam, Sanford A., 18 Eighth street.....Milk
 Duffy, William J., 152 Grove street.....B. R. Shoe Co.
 Eastman, Harry M., 478 Lebanon street.....Clerk
 Field, Charles M., 487 Lebanon street.....Machinist
 Grottendick, George B., 230 Grove street....Book Binder
 Hayden, Arthur L., 126 W. Foster street.....Furniture
 Hitchins, J. Sydney, 69 Laurel street.....Salesman
 Kohr, John, 466 Lebanon street.....Retired
 Lovejoy, Bertram E., 132 E. Foster street.....Real Estate
 McFarlin, William J., 36 Cass street.....Variety Store
 Osgood, Francis T., 121 E. Foster street.....Clerk
 Parker, Albon W., 181 Upham street.....Painter
 Philpot, Robert, 75 Dell avenue.....Contractor
 Sanborn, George I., 123 First street.....Merchant
 Schofield, William E., 135 First street.....Salesman
 Vaughn, Melburn D., 508 Main street.....Salesman
 Wiswell, Dexter W., 181 Upham street.....Skirt Cutter

WARD 7.

Albee, Daniel C., 103 Malvern street.....Painter
 Atwood, George H., 113 Malvern street.....Clerk
 Barton, Charles J., 85 Meridian street.....Salesman
 Burnett, Andrew J., 2 Waverly avenue.....Master Plumber

Copeland, Albert F., 59 Beech avenue.....Clerk
Doherty, Charles F., 381 Main street.....Barber
Elms, Levi, 100 Lebanon street.....Farmer
Flatley, John C., 99 Linwood avenue.....Tailor
Henney, William T., 36 Lynde street.....Painter
Johnson, Henry E., 84 Malvern street.....Insurance
Kennard, Walter I., 85 Malvern street.....Clerk
Marshall, Charles E., 76 Lynde street.....Salesman
McCullough, John J., 54 Summer street.....Clerk
Muttu, Louis J., 76 Meridian street.....Salesman
Newhall, J. Walter, 122 Malvern street.....Shoes
Nickerson, Lemuel, 35 Irving street.....Sail Maker
Short, Patrick A., 32 Mystic avenue.....Fireman
Smith, Fred H., 40 Fairmount street.....Glass
Tirrell, Edwin J., 49 Appleton street.....Cashier
Ward, Rufus S., 13 Appleton street.....Teamster

Report of the Overseers of the Poor.

MELROSE, February 1, 1903.

*To His Honor the Mayor and the Honorable Board of Aldermen,
City of Melrose:*

GENTLEMEN : The Overseers of the Poor respectfully submit the following report of the doings of their department for the year ending January 31, 1903. There have been aided by the department 345 persons, 296 of whom were partially supported and 49 wholly supported. Of the 296 partially supported, 62 were state cases, consisting of 33 males and 29 females; 30 adults, 30 children under 16, and 2 over 16 years; 164 had a settlement in our city, 73 males and 91 females; 63 adults, 91 children under 16, and 10 over 16 years of age; 70 had a settlement in other cities or towns, 37 males and 33 females; 27 adults, 39 children under 16, and 4 over 16 years, making a total of 143 males, 153 females, of whom 130 were adults, 160 children under 16 years of age and 16 minors over 16.

Four of the above-named number received only medical aid. This does not include the large number of patients who were admitted to the Melrose hospital upon request of physicians and were cared for without expense to themselves.

Of the 49 wholly supported, 15 were cared for at our city farm, 24 were supported in insane hospitals, (including 5 for whom individuals repay the city) 1 in the Massachusetts Hospital for Dipsomaniacs, and 1 in the Baldwinville Hospital Cottages for children. Eight were boarded in private families.

The number of applicants is in excess of last year, owing to the severity of the winter and the dearth of work. It has been a hard year in every respect and our expenses have increased accordingly. The reasons are obvious. The scarcity of fuel, the high prices of foods of all kinds, and the immense amount of sickness we have had to deal with, together with a greater number of applicants, seems in itself sufficient excuse for the increase in expenditures. The Board has endeavored to deal justly and fairly with its poor, and now feels with satisfaction that it has not "scrimped and iced" but has kept the needy unfortunates warm and comfortable as far as it has been in their power to do, through the unusual winter.

The great amount of sickness among the poor this year has brought before us forcibly the need of a city physician, and we would recommend that such a person is the chief requirement of our Board, who could be employed in conjunction with the Board of Health and who would be of infinite service to both boards.

In December we were obliged to accept the resignation of our honored chairman, Mr. S. H. Buttrick to become mayor of the city. The void he has left is already realized keenly, but we feel that he has not abandoned all interest in the department, but is ready at all times to give suggestions and advice, valuable because of his intimate knowledge of the poor and keen perception of the methods and business of poor departments. The expressions of regret on the part of the poor themselves, showed beyond question the sorrow they felt at the loss of so kind and wise an overseer.

PRATT FARM.

The inmates of the farm have been fortunate enough to experience another year under the friendly supervision of Mrs. C. L. Chandler, as matron, who has retained her usual admirable record in the care of the house and the comfort of those under her care. We have been many times complimented on the neat appearance and management of the

house by inspectors and visitors, and if it were not for the name "Poor Farm" it would not be so persistently shunned by aged and helpless people, who doubtless ignorantly associate the place with the traditional "workhouse" of Dickens fame. We do not see however why these people should be upheld in their protestations by educated people of this city, who, looking at the matter fairly, must see only a comfortable home for lone destitute people, whom we cannot aid outside.

We have improved the farm this year with the addition of a silo, which, while it has put us to considerable expense, we feel will prove a necessary and exceedingly useful "white elephant." A new floor has been laid in the old ladies' sitting room, and a new room added for a wash room. We have had an unusual amount of sickness at the farm this year, and one of the inmates has died. Two other deaths have occurred there of persons who were not properly committed.

OVERSEERS OF THE POOR,

GRACE A. COLBY, Clerk.

PRODUCE OF PRATT FARM, 1902.

5 tons winter rye.
7 bushels peas.
2½ tons hay.
151 summer squash.
4 crates strawberries.
81 cucumbers.
3 barrels apples.
47 bushels beets.
3 bushels radishes.
4 bushels onions.
42 heads lettuce.
144 bushels carrots.
14 cauliflowers.
22 bushels turnips.
2½ bushels pears.

515 cabbages.
 12 bushels corn.
 9½ bushels corn for hens.
 74 bushels potatoes.
 50 tons silo corn.
 10 bushels string beans.
 7 bushels shell beans.
 4½ bushels baking beans.
 3 bushels lima beans.
 8 bushels tomatoes.
 569 barrels wood delivered.
 3,869¼ gallons milk produced.
 4,335 eggs.

Everything points to a more favorable year next year, when we shall realize more from the vegetables and produce of the farm.

FINANCIAL STATEMENT.

Appropriation,		\$9,000 00
Commonwealth of Massachusetts, . .	\$1,010 18	
Cities and towns,	956 66	
Individuals,	176 04	
Farm (sale of produce),	828 78	
Individuals for insane support, . . .	544 19	
	<hr/>	
	\$3,515 85	
Deficiency,	1,351 84	
	<hr/>	
		4,867 69
		<hr/>
		\$13,867 69

OUTSIDE AID.

Food,	\$2,341 73
Fuel,	570 25
Rent,	1,125 00
Board in private families,	338 42
Shoes,	226 35
	<hr/>
Amount carried forward,	\$4,601 75

Amount brought forward, . . .	\$4,601 75	
Clothing,	48 99	
Medicine,	166 73	
Medical aid,	357 20	
Burial,	103 34	
Cash,	108 54	
Care of insane,	2,635 31	
Board in other institutions, . . .	422 01	
Cities and towns,	501 85	
Amount paid for services and inci- dental,	351 44	
	<hr/>	
	\$9,297 16	

PRATT FARM.

Supplies,	\$3,950 28	
Permanent improvements,	620 25	
	<hr/>	
	4,570 53	
	<hr/>	
		\$13,867 69

PRATT FARM.

House expense.

Food,	\$637 51	
Fuel (\$207.63 spent for fuel to be delivered to poor)	351 54	
Telephone,	42 02	
Supplies,	706 32	
Labor,	183 42	
Medicine,	99 17	
Medical aid,	56 50	
Repairs,	117 35	
Sundries,	167 81	
Salary of matron,	300 00	
Burial,	26 50	
	<hr/>	
		\$2,688 14

Farm expense.

Labor,	369 00	
Supplies,	893 14	
Permanent repairs,	620 25	
	<hr/>	
		1,882 39
		<hr/>

Amount carried forward, \$4,570 53

Amount brought forward,		\$4,570 53
Less for permanent repairs,	\$620 25	
Credit by sale of produce,	828 78	
“ “ wood delivered (poor)	161 70	
“ “ milk “ “	51 31	
“ “ wood, “ soldiers' relief,	9 00	
	<hr/>	1,671 04
		<hr/>
		\$2,899 49

Amount paid for support at our almshouse, viz :

Salaries,	\$300 00	
Supplies (food, fuel, clothing, etc.)	1,695 37	
Other ordinary expenses,	1,954 91	
Permanent improvement,	620 25	
	<hr/>	\$4,570 53
Paid for full support at insane hospital or asylums,		2,635 31
Paid for full support in other institutions,		422 01
Paid for full support in private families,		338 42

Amount paid for temporary relief and partial support (without regard to settlement), viz:

Cash allowance,	\$108 54	
Rent,	1,125 00	
Supplies,	3,187 32	
Medical aid,	523 93	
Cities and towns,	501 85	
Miscellaneous,	103 34	
	<hr/>	5,549 98
Paid for services and incidental expenses of overseers or their agents,		351 44
		<hr/>
Total amount paid for ordinary expenses,		\$13,867 69
		<hr/>
Amount carried forward,		\$13,867 69

Amount brought forward	\$13,867 69
Re-imbursements of pauper expenses received during the year, viz. :	
From almshouse: sale of produce,	\$828 78
individuals for support in insane hospitals,	544 19
individuals for relief,	176 04
state for relief,	1,010 18
cities and towns for relief,	956 66
	<hr/>
	\$3,515 85
Net amount of ordinary expense,	<hr/>
	\$10,351 84
Appropriation,	\$9,000 00
Net expenses,	\$10,351 84
Deficiency,	\$1,351 84

ELEANOR BROWN TOOTHAKER FUND.

Balance on hand to credit of the fund,	
Jan. 31, 1902,	\$1,419 92
Interest to Jan. 31, 1903,	53 40
	<hr/>
	\$1,473 32
Expenditures,	146 22
	<hr/>
Balance,	\$1,327 10

Respectfully submitted,

SIDNEY H. BUTTRICK,

M. E STANTIAL,

W. S. SOULE,

Overseers of the Poor.

Report of the Board of Health.

Feb. 1, 1903.

To His Honor the Mayor and the Honorable Board of Aldermen, City of Melrose, Mass.

GENTLEMEN: We have the honor to make our report of the Health Department for the year 1902.

During the year we have held 48 meetings, including several special meetings, necessary to consider urgent matters which constantly arose. We met in a different environment, having held our meetings in a properly equipped office. Our improvements included a typewriter, telephone, new furniture and furnishings, and with a few more alterations and additions during the coming year we shall feel that the Board of Health, an excrescence on the city government, has arisen from the oblivion of the dusty ages and has come forth as a useful body of educated men, who are entitled to a properly equipped place, where their work can be done in a business-like manner, and where their efforts will remain as substantial and reliable city records.

MORTALITY IN MELROSE.

In compiling the return of deaths for 1902, we find an increase of 23 over last year, including still births. The usual difficulty presents itself in that we were obliged to strike out eight inaccurately stated causes of death. These have been placed under the head of ill-defined causes. The

Board hopes that more autopsies will be done, as in this way the actual cause of death is often seen. If the attending physician does not wish to perform the autopsy, there are other physicians interested in that work, who would be willing to aid him in ascertaining the actual condition.

We have tabulated the deaths which have occurred by months from 1850 to the present date. This work was made more laborious because some of the records were incorrect. We were unable to find the population for certain years, so were obliged to estimate it. We hope next year to have a similar table which will give the number of deaths from 12 principal causes.

REPORT OF DEATHS, MONTH OF JANUARY, 1902.

CAUSE OF DEATH.																		
	White	Colored	Male	Female	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Ill defined.....	2	..	..	2	..	..	..	..	..	..	..	..	..	..	1	1	..	2
Heart disease.....	4	..	2	2	1	..	..	..	..	..	..	..	..	..	1	2	..	4
Spina bifida.....	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Tumor of brain.....	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Bronchitis, chronic....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Pneumonia	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Abdominal (malignant disease)	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Senile dementia.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Totals	12	..	4	8	2	..	..	..	..	..	1	1	..	1	3	4	..	12

Nativity of Deceased—Nova Scotia, 1; United States, 10; Germany, 1.

Place of Burial—Wyoming, 5; Out of town, 7; 1 cremated.

REPORT OF DEATHS, MONTH OF FEBRUARY, 1902.

CAUSE OF DEATH.	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Pneumonia	3	..	2	1	1	..	..	..	2	..	..	..	..	..	..	..	..	3
La Grippe	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Heart disease	2	..	2	..	..	..	..	..	..	..	..	1	..	..	1	..	..	2
Sarcoma of neck	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Stillborn	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Suicide	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Cirrhosis of liver	1	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Bronchitis, acute	2	..	2	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2
Senile Dementia	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Tuberculosis Pulmon- alis	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Cancer of stomach	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Cancer of liver	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Totals	16	10	6	1	1	..	..	3	1	1	1	1	1	1	2	4	..	16

Nativity of Deceased—Nova Scotia, 2; New Brunswick, 1; Canada, 1; United States, 11; Ireland, 1.

Place of Burial—Wyoming, 6; Out of town, 10.

REPORT OF DEATHS, MONTH OF MARCH, 1902.

CAUSE OF DEATH.												
	White	Colored.	Male.	Female.								
				1 year and under.								
				1 to 2 years.								
				2 to 5 years.								
				5 to 10 years.								
				10 to 20 years.								
				20 to 30 years.								
				30 to 40 years.								
				40 to 50 years.								
				50 to 60 years.								
				60 to 70 years.								
				70 to 80 years.								
				80 to 90 years.								
				Over 90 years.								
				Totals								
Apoplexy	2	..	..	2	..	..	..	..	..	..	..	2
Tuberculosis of bowels	1	..	1	..	..	..	..	..	..	..	..	1
Premature birth.....	1	..	1	..	1	..	..	..	..	..	..	1
Heart disease.....	1	..	..	1	..	..	..	..	..	..	..	1
Pneumonia	3	..	2	1	1	2	..	..	..	..	..	3
Appendicitis .....	..	1	..	1	..	..	..	..	1	..	..	1
Old age.....	1	..	..	1	..	..	..	..	..	..	1	1
Accident (gas).....	1	..	1	..	..	..	..	..	1	..	..	1
Bronchitis	1	..	1	..	..	1	..	..	..	..	..	1
Intersusception of bowels.....	1	..	..	1	..	1	..	..	..	..	..	1
Cancer of bowels.....	1	..	..	..	..	..	..	..	..	..	1	1
Abscess of brain.....	1	..	..	1	..	..	..	..	1	..	..	1
La Grippe.....	1	..	..	1	..	..	..	..	..	..	..	1
Epilepsy and pulmon- ary tuberculosis.....	1	..	..	1	..	..	..	1	..	..	..	1
Broncho pneumonia...	1	..	..	1	..	..	1	..	..	..	..	1
Smallpox	1	..	1	..	..	..	..	..	1	..	..	1
Fatty degeneration of heart	1	..	..	1	..	..	..	..	1	..	..	1
Phthisis pulmonalis...	1	..	..	1	..	..	..	1	..	..	..	1
Ill defined.....	1	..	1	..	..	..	..	..	..	..	1	1
Drowned	1	..	1	..	..	..	..	..	1	..	..	1
Still born.....	1	..	1	..	..	..	..	..	..	..	..	1
Total	23	1	10	13	2	2	2	1	3	1	3	24

Nativity of Deceased—United States, 21; Nova Scotia, 3.

Place of Burial—Wyoming, 10; Out of town, 14.

REPORT OF DEATHS, MONTH OF APRIL, 1902.

CAUSE OF DEATH.																		
	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Cerebral hemorrhage..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Paralysis larynx.....	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Heart disease	2	..	..	2	..	..	..	..	..	..	..	..	1	..	1	..	..	2
Uraemia	2	..	1	1	1	..	..	..	..	..	..	..	1	..	..	..	..	2
Paralysis	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Carcinoma	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Progressive paralysis..	2	..	..	2	..	..	..	..	..	..	..	1	..	..	1	..	..	2
Erysipelas	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1	..	1
Ill defined.....	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Old age.....	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Accident, R. R.....	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Intersusception of bowels.....	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Pneumonia	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Tuberculosis	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Stillborn	2	..	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	2
Totals	19		7	12	5			1				4	1	1	4	3		19

Nativity of deceased—United States, 16; Nova Scotia, 1; Ireland, 1; Hungary, 1.

Place of Burial—Wyoming, 9; Out of town, 10.

REPORT OF DEATHS, MONTH OF MAY, 1902.

CAUSE OF DEATH.	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Cancer of liver.....	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Cerebro spinal meningi- tis	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Apoplexy	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Tuberculosis (general miliary)	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Premature birth.....	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Cancer of jaw.....	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Bronchitis	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Carcinoma of uterus...	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Intersusception of bowels.....	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Tuberculosis	4	..	1	3	..	..	..	..	1	..	3	..	..	..	..	..	..	4
Carcinoma of rectum..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Smallpox	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Heart disease.....	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Brain tumor.....	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Stillborn	2	..	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	2
Totals	19	10	9	2	1	2	1	1	1	1	5	1	2	2	1	..	..	19

Nativity of deceased—United States, 17; Nova Scotia, 1; Canada, 1.

Place of Burial—Wyoming, 10; Out of town, 9.

REPORT OF DEATHS, MONTH OF JUNE, 1902.

CAUSE OF DEATH.	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Tuberculosis of bowels	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Heart disease.....	3	..	..	3	..	..	..	..	..	..	..	..	..	2	..	1	..	3
Carcinoma of bowels..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Cerebral embolism....	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Ill defined.....	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Ante partum hemorrhage from detached placenta	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Premature birth.....	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Pressure from contracted pelvis.....	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Tuberculosis	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Diphtheria	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Abortion, septicaemia, exhaustion	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Bronchitis	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Placenta praevia.....	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Accident.....	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Melancholia.....	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Pistol wound of head..	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Peritonitis	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Gastric carcinoma.....	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Still born.....	2	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Totals	22	..	11	11	2	1	..	1	..	4	1	4	1	4	..	2	..	22

Nativity of Deceased—Nova Scotia, 3; United States, 14; Cape Breton, 2; Scotland, 1; New Brunswick, 1; Unknown, 1.

Place of Burial—Wyoming, 6; Out of town, 16, (1 cremated).

REPORT OF DEATHS, MONTH OF JULY, 1902.

CAUSE OF DEATH.	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Smallpox	2	..	2	..	..	..	..	..	..	1	..	..	..	..	..	1	..	2
Heart disease	3	..	1	2	..	..	..	..	..	..	1	..	..	1	1	..	..	3
Whooping cough	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Nephritis and meningitis	1	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	1
Meningitis	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Apoplexy	2	..	1	1	..	..	..	..	..	..	1	..	..	..	1	..	..	2
Erysipelas	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Paralysis	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Totals	12	..	4	8	..	1	1	..	..	2	2	..	..	2	3	1	..	12

Nativity of deceased—United States, 7; New Brunswick, 2; Ireland, 2
Unknown, 1

Place of Burial—Wyoming, 6; Out of town, 6.

REPORT OF DEATHS, MONTH OF AUGUST, 1902.

CAUSE OF DEATH.	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Cancer of liver.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Ill defined.....	2	..	1	1	1	..	..	..	..	..	..	..	..	..	..	1	..	2
Drowning.....	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Heart disease and softening of brain.....	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Paralysis	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Cholera infantum.....	1	..	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	1
Heart disease, anæmia.	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Premature birth.....	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Gastro enteritis.....	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Bright's disease.....	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Totals	11	..	6	5	4	..	..	..	1	1	..	1	1	2	1	..	..	11

Nativity of Deceased—United States, 8; Canada, 1; Ireland, 1; Unknown, 1.

Place of Burial—Wyoming, 5; Out of town, 6;

REPORT OF DEATHS, MONTH OF SEPTEMBER, 1902.

CAUSE OF DEATH.	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Typhoid fever.....	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Tuberculosis	2	..	1	1	..	..	..	..	..	1	1	..	..	..	..	..	..	2
Suicide	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Pleurisy	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Enterocolitis.....	1	..	..	1	1	..	..	..	..	..	..	..	..	1	..	..	..	1
Cancer of stomach.....	2	..	1	1	..	..	..	..	..	..	..	1	1	..	..	..	..	2
Cholera morbus.....	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Hemiplegia-coma	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Heart disease.....	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Diarrhoea, heart exhaustion	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Premature birth.....	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Drowned	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Stillborn	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Totals	15	..	5	10	1	..	1	..	2	1	2	5	2	1	..	..	..	15

Nativity of Deceased—United States, 8; Cape Breton, 1; Ireland, 3; England, 1; Canada, 1; Nova Scotia, 1.

Place of Burial—Wyoming, 6; Out of town, 8; Unknown, 1.

REPORT OF DEATHS, MONTH OF OCTOBER, 1902.

CAUSE OF DEATH	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Pneumonia	4	..	3	1	1	..	..	..	..	..	..	..	1	1	1	..	..	4
Diphtheria	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Old age	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Heart disease	5	..	3	2	..	..	..	..	1	..	..	..	..	1	3	..	..	5
Marasmus	2	..	12	..	2	..	..	..	..	..	..	..	..	..	..	..	..	2
Entero colitis	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Scarlet fever	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1
Intestinal carcinoma ..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Apoplexy	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Phthisis	2	..	1	1	..	..	..	..	..	1	1	..	..	..	..	..	..	2
Totals	19	12	7	4	..	1	..	..	3	2	..	..	1	2	6	..	..	19

Nativity of deceased—Ireland, 3; New Brunswick, 2; United States, 11; Prince Edward's Island, 1; England, 1; Unknown, 1.

Place of Burial—Wyoming, 8; Out of town, 11.

REPORT OF DEATHS, MONTH OF NOVEMBER, 1902.

CAUSE OF DEATH.	White.	Colored.	Male.	Female.	1 year and under.	1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.	Totals.
Apoplexy	2	..	..	2	..	..	..	..	..	..	..	..	..	1	1	..	..	2
Strangulated hernia...	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Heart disease	3	..	..	3	..	..	..	..	..	1	..	..	..	1	1	..	..	3
Pneumonia	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Shock and hemorrhage, R. R. injuries	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Nephritis	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Whooping cough	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Cerebral hemorrhage..	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Apoplexy and tubercu- losis	1	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Ill defined	1	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Old age and la grippe..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Fibroid tumor of uterus	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Tuberculosis	2	..	2	..	..	1	..	..	..	..	1	..	..	..	..	..	..	2
Totals	17	6	11	1	1	1	1	..	2	1	1	3	2	2	2	1	..	17

Nativity of deceased—United States, 13; England, 1; Ireland, 1; Wales 1; New Brunswick, 1.

Place of Burial—Wyoming, 10; Out of town, 7.

REPORT OF DEATHS, MONTH OF DECEMBER, 1902.

CAUSE OF DEATH.																		
	White.	Colored.	Male.	Female.	1 year and under.														Totals.
					1 to 2 years.	2 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	70 to 80 years.	80 to 90 years.	Over 90 years.		
Tuberculosis	5	..	1	4	..	..	..	1	1	1	1	..	1	..	..	..	5
Congestion of lungs and heart disease.....	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	1
Nephritis	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Pneumonia	3	..	2	1	..	1	..	..	..	..	1	..	..	..	1	..	3
Heart.....	2	..	1	1	..	..	..	..	..	..	1	..	..	1	..	..	2
Cancer of kidney.....	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	1
Found dead in bed....	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1
Diabetes	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Marasmus	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Paralysis and coma....	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	1
La Grippe.....	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Gen. suppurative condition, exhaustion...	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Broncho pneumonia...	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1
Chronic intestinal nephritis	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	1
Cerebral hemorrhage..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	1
Stillborn	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Totals	23	11	12	3	1	1	1	1	2	4	3	2	4	1	1	1	23	

Nativity of deceased—United States, 16; Nova Scotia, 2; Ireland 2; England 1; New Brunswick, 1; Sweden, 1.

Place of Burial—Wyoming, 8; Out of town, 15.

DEATHS BY MONTHS FROM 1851 TO 1902.

DATE.	Population.	Male.	Female.	Sex not stated.	January.	February.	March.	April.	May	June.	July.	August.	September.	October.	November.	December.	Stillborn.	*Total.
1851.....	1,260	8	9	..	1	3	..	1	..	..	..	2	4	1	3	2	..	17
1852.....	..	11	8	..	4	1	1	2	1	..	2	3	..	2	3	..	..	19
1853.....	..	15	14	..	1	3	3	1	2	1	2	4	2	2	8	..	..	29
1854.....	..	11	14	2	..	3	1	2	1	2	5	1	4	2	4	2	..	27
1855.....	1,976	20	14	..	2	1	2	..	2	4	2	2	7	7	1	4	..	34
1856.....	2,206	21	28	..	3	4	2	7	6	5	3	1	5	8	1	5	1	50
1857.....	..	20	21	..	6	1	5	5	3	1	4	5	4	3	2	2	4	41
1858.....	2,297	16	32	..	1	4	2	1	2	1	2	6	13	10	..	6	1	48
1859.....	2,431	12	21	1	2	1	5	2	2	..	4	4	2	4	1	7	1	34
1860.....	2,482	27	19	..	2	4	6	8	4	2	2	4	5	4	1	4	..	46
1861.....	..	11	23	..	2	3	4	3	1	1	1	7	3	7	..	2	..	34
1862.....	..	23	14	..	1	..	2	1	1	3	3	12	6	4	3	1	..	37
1863.....	..	16	18	..	4	1	3	4	2	5	..	3	4	4	1	3	1	34
1864.....	..	32	28	..	4	2	2	2	3	1	8	23	8	5	..	2	1	60
1865.....	2,866	17	16	..	..	2	3	3	4	3	1	8	2	4	2	1	1	33
1866.....	..	19	28	..	9	5	3	2	7	4	2	2	4	5	1	3	3	47
1867.....	..	25	21	1	8	1	7	4	1	1	2	6	3	3	7	4	3	47
1868.....	..	21	25	..	5	2	4	5	3	5	4	4	6	3	3	2	4	46
1869.....	..	34	39	..	4	5	1	7	3	6	10	12	6	9	5	5	1	73
1870.....	3,181	17	30	..	4	3	2	4	4	5	7	2	3	1	6	6	2	47
1871.....	..	32	22	..	4	5	4	8	6	1	4	8	1	7	2	4	1	54
1872.....	..	41	38	..	6	9	3	8	11	3	6	8	9	5	4	7	1	79
1873.....	..	15	30	..	2	3	7	5	2	3	3	5	5	4	4	2	3	45
1874.....	..	42	38	..	5	6	4	9	11	10	6	5	8	8	4	4	3	80
1875.....	3,990	42	38	..	4	6	6	8	12	7	8	7	7	6	1	8	..	80
1876.....	4,185	33	31	..	5	4	10	6	9	3	5	6	4	3	5	4	1	64
1877.....	4,101	21	36	..	4	3	9	6	4	8	3	8	3	2	1	6	..	57
1878.....	4,221	33	27	..	12	4	5	6	4	3	5	9	3	3	1	5	5	60
1879.....	4,365	26	38	..	5	5	4	6	6	3	8	5	5	4	1	12	2	64
1880.....	4,443	33	29	..	2	6	7	6	4	5	9	8	4	4	3	4	3	62
1881.....	4,508	27	38	..	11	1	7	4	3	5	4	5	6	4	6	9	5	65
1882.....	4,739	37	46	..	6	6	3	10	7	8	4	10	8	6	7	8	1	83
1883.....	5,071	44	33	..	6	8	10	4	2	4	6	12	6	5	8	6	5	77
1884.....	5,607	38	41	..	6	9	7	11	8	2	3	6	7	5	8	7	4	79
1885.....	6,110	56	62	..	5	7	7	11	8	12	14	15	6	11	5	17	3	118
1886.....	6,536	52	48	..	17	8	6	7	7	8	12	15	8	5	2	5	4	100
1887.....	7,073	44	47	..	7	6	7	7	12	8	8	10	7	5	6	8	5	91
1888.....	7,535	57	56	..	9	11	8	8	11	9	11	10	7	7	10	12	10	113
1889.....	7,821	57	71	..	8	13	17	15	12	8	13	9	8	7	8	10	4	128
1890.....	8,127	64	50	..	11	5	8	8	6	12	7	11	12	7	15	12	4	114
1891.....	8,827	61	82	1	13	9	10	13	8	7	7	15	12	13	15	22	8	144
1892.....	9,539	91	74	..	25	14	13	14	17	6	13	10	13	7	16	17	6	165
1893.....	10,474	79	79	..	14	12	10	16	11	10	10	24	8	16	15	12	7	158
1894.....	10,847	86	95	..	17	13	13	25	14	16	14	12	14	9	15	19	10	181
1895.....	11,651	71	80	..	6	21	9	23	9	14	11	16	11	14	9	8	13	151
1896.....	12,314	105	97	..	20	12	16	20	14	12	23	31	13	12	15	14	14	202
1897.....	12,520	100	89	..	16	17	22	12	14	11	13	29	19	6	15	15	7	189
1898.....	12,630	97	97	..	13	11	24	23	22	12	13	11	15	17	13	20	5	194
1899.....	12,625	93	92	..	28	16	18	16	20	16	8	12	13	9	12	17	5	185
1900.....	12,630	112	94	1	22	17	30	24	15	10	15	12	19	19	8	16	4	207
1901.....	12,845	91	91	..	20	13	13	16	15	7	10	18	9	21	19	21	9	182
1902.....	13,369	92	107	..	12	15	23	17	17	20	12	11	14	19	17	22	10	199

*Still births excluded.

COMMUNICABLE DISEASES.

The whole number of communicable diseases reported for 1902 was 189, a decrease of 385 from 1901; the greatest decrease being in measles of which there were 467 cases in 1901 and 75 in 1902. Unusual was the appearance of 10 cases of small pox, these being the first cases which have occurred for 25 years, with the exception perhaps of two mild cases, one in 1892, and one in 1899. Upon investigation we found that these were probably mistaken for other diseases, particularly in one case which was undoubtedly syphilis.

We have required and requested the physicians to report in addition to the contagious diseases which have always been reported, mumps, chicken pox, tuberculosis, typhoid fever and whooping cough.

Physicians are very delinquent in reporting these diseases and probably will continue to be so until an example is made of some who has neglected to comply with our requirements. We did not ask them for the sake of being arbitrary, but because we want an accurate record of these cases, and stricter supervision that their spread may be controlled.

The board of aldermen made five appropriations amounting to \$7,013.33 for the care and prevention of contagious disease. In the care of contagious disease money was expended from this amount for 10 cases of small pox, (the tenth patient being now ill), 3 cases of scarlet fever, 1 case of diphtheria and one case of measles.

The care of small pox patients included the employing of physicians and nurses and providing them with all the necessities during the patient's illness either at his home or at the hospital. All members of the family who were in the house at the time the disease was apparent were held in quarantine for 14 days and were provided with food, fuel, medical attention, and any other necessity during that time. Forty-nine people were thus held in detention for 14 days, and two families, consisting of about ten persons were provided for for two weeks after the quarantine had elapsed because they were poor and unable to procure work.

Those who were unfortunate enough to die with the disease were given a decent burial, at considerable expense to the city.

Money spent from the appropriation for the prevention of the spread of contagious disease included the investigation of suspicious cases of which there were no less than ten, and the giving of free vaccination to the inhabitants of Melrose. The expense has been great, but considering the difficulty in employing nurses and doctors, and the unwillingness of other people to have anything to do with the disease unless they were paid extravagant sums, and taking into consideration also the superior treatment which all patients received, we feel with sincerity that the city has obtained just recompense for its expenditure. No fair minded citizen, viewing the matter impartially, would grudge one cent that has been spent when he remembers that in no case has the disease spread from the person suffering from it or from his residence, to another, owing to the strict and efficient methods adopted in the care of the disease, and that the city has in all probability been saved many cases of the disease and a higher mortality among its inhabitants.

Reimbursement is due this city from Everett, Reading, and the State, and bills have been sent amounting to \$2,724.35.

The foregoing appropriation was not sufficient, however, to successfully conduct free vaccination and two appropriations amounting to \$1,200 were made by the Board of Aldermen for this purpose.

It was the intention of the Board of Health to compel all the inhabitants of the city of Melrose to be properly vaccinated. At first we gave free vaccination at the City Hall over a period of nearly three months. Our method of conducting vaccination differed from last year in that we requested all persons to return for inspection at the end of six days, when the arm was carefully dressed, or the person revaccinated if the first attempt was unsuccessful. During the entire period we dressed the arm of any person who applied. The care of vaccinated arms alone required a great deal of the time of those employed to do the work. Those who were ill at home from the effects of vaccination

were provided with a doctor, and given proper treatment until recovery.

On January 1st, nine physicians were employed to make a house to house examination of the city, and although this work was begun on January 1st, it is still far from completion. Of the \$1,200 appropriated, all has been expended for employing the nine physicians, five nurses, and for the material used by them, together with the necessary advertising and printed matter. The condition of the public schools has been thoroughly investigated and reference to the table below will show the results with regard to vaccination.

STATUS OF VACCINATION IN PUBLIC SCHOOLS.

SCHOOL.	No. vaccinated only once.	No. vaccinated more than once.	No. vaccinated in 1901.	No. vaccinated in 1902.	No. of cert. given at time of vacc.	No. cert. given by phys. after succ. vacc.	Not vaccinated.	Not vaccinated because unfit.	No. of pupils.	No. certificates recorded.	No record.
Goeth	184	96	55	18	43	146	..	6	294	76	8
Franklin	175	147	62	27	61	136	2	11	335	127	...
Converse	20	6	9	3	9	12	..	..	26	5	...
Horace Mann	192	125	59	23	49	133	1	9	327	134	...
Lincoln	182	156	76	42	38	182	..	7	350	126	5
Ripley	22	3	6	3	10	11	..	..	25	4	...
Mary A. Livermore	59	98	22	41	8	59	..	9	166	92	...
High	157	223	94	64	44	137	..	5	385	199	...
Washington	205	134	96	34	67	154	..	7	347	118	1
Winthrop	64	29	19	12	21	54	..	4	98	28	1
Joseph Warren	99	45	37	20	13	94	..	6	150	37	...
Whittier	98	32	21	2	29	71	..	19	150	31	1
Sewall	117	45	28	14	23	94	2	10	174	45	...

TABLE OF CASES OF SMALLPOX.

NAME.	Age.	Occupation.	Hospital or home.	Date of recovery.	Date of death.	Days in Hospital.	Settlement.	Vaccinated.	Unvacc.
Carpenter, Geo. M. . .	52	Traveling salesman	Home	.....	M'ch 20, '02	..	Everett	.....	Unvacc.
Carpenter, Geo. S. . .	28	Clerk	Hosp.	Apr. 27, '02	.....	22	Everett	.....	Vac. after exposure
Carlton, P. G.	81	Peddler teas and coffees	Hosp.	.....	July 1, '02	5	Reading	Possibly in infancy	Unvacc.
Morton, Mrs. Seth P. .	48	House	Hosp.	June 20, '02	.....	31	Melrose	.....	Unvacc.
Morton, Clarence . . .	2	.....	Hosp.	.....	May 22, '02	2	Melrose	.....	Unvacc.
Morton, Seth P. . . .	50	Carpenter	Hosp.	June 20, '02	.....	27	Melrose	.....	Unvacc.
Tingley, Daniel	54	Leather	Hosp.	(Removed to Malden)	.....	3	Malden	Vacc., no scar	Unvacc.
Evans, Charles	27	Plumber	Hosp.	.....	July 15, '02	7	State	.....	Unvacc.
Holmes, James	35	Salesman (novelties)	Home	Dec. 14, '02	.....	..	Melrose	Vaccinated	
Copeland, Heber	19	Clerk	Hosp.	.....	.....	..	Melrose	Said to be vacc., no scar	

SUSPICIOUS CASES

During the year the Board was called upon by physicians and others to investigate certain illnesses characterized by eruptions. Upon first appearance these eruptions were not typical of any disease, but after careful observation the diseases from which these persons were suffering were apparent. The physicians of the city are to be commended in aiding the Board in all cases of ill defined skin eruptions. Their eagerness to make early diagnosis and establish quarantine was a conspicuous feature and was appreciated.

We had no case where the patient had been treated for several days before the exact nature of their malady was known. It is well known that this happened too often in other cities and towns.

The total expense for investigating suspicious cases was \$132, \$100 being paid for consultation and \$32 for carriage hire.

Appropriation,	\$7,013 33
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EXPENDED FOR CONTAGIOUS HOSPITAL.

Cost of buildings,	\$340 00
Removal of buildings,	150 00
Lumber,	44 52
Hardware,	55 76
Carpentry	190 12
Painting,	15 48
Masonry,	19 35
Special labor,	51 00
Furniture and furnishings,	415 64
Water pipe,	84 36
Ambulance and blankets,	19 30
Miscellaneous,	6 98
	<hr/> \$1,392 51

EXPENDED FOR CONTAGIOUS DISEASE.

Food,	\$614 77	
Fuel,	40 96	
Medicine and supplies for vaccination,	833 77	
Doctors,	811 00	
Patrol,	637 90	
Carriage hire,	251 00	
Nurses,	1,564 13	
Disinfection,	147 00	
Funerals,	394 00	
Rent,	110 00	
Telephone,	33 44	
Express,	7 20	
Miscellaneous,	135 80	
Cities and towns,	39 20	
	<hr/>	\$5,620 17
Refunded to treasury,		65
		<hr/>
		\$7,013 33
Special appropriation for improvement and change of location of hospital,		\$600 00
Removing and construction of cellar,	\$372 00	
Carpentry and lumber,	161 70	
Plumbing,	37 68	
Painting and hardware,	20 93	
	<hr/>	\$592 31
Refunded to treasury,		592 31
		<hr/>
		7 69
		<hr/>
		\$600 00
Appropriated for vaccination,		\$1,200 00
Expended for doctors,	\$582 75	
“ “ nurses,	214 00	
“ “ points and drugs,	320 52	
“ “ advertising, printed matter, distributing notices, etc.,	78 00	
Expended for miscellaneous,	1 67	
	<hr/>	\$1,196 94
Refunded to treasury,		\$1,196 94
		3 06
		<hr/>
		\$1,200 00

CONTAGIOUS DISEASE REPORTED FOR YEAR 1902.

(January 1, '02 — January 1, '03.)

DISEASE.	Converse.	Horace Mann.	High.	Gooch.	Franklin.	Lincoln.	Livermore.	Private.	Ripley.	Sewall.	Warren.	Washington.	Winthrop.	Whittier.	Not in school.	Total.
Diphtheria . . . . .	..	..	1	7	..	1	..	..	2	2	..	2	..	1	19	35
Scarlet fever. . . . .	..	1	..	..	5	1	1	..	..	1	1	2	..	2	9	23
Typhoid fever. . . . .	..	..	..	..	1	1	..	..	..	..	..	..	..	..	9	12
Chicken pox. . . . .	..	1	..	1	..	1	..	..	..	..	..	..	..	..	1	4
Whooping cough. . . . .	..	1	..	4	..	3	..	1	..	1	..	..	4	..	16	30
Measles	1	..	3	2	2	7	..	7	2	2	14	2	1	..	32	75
Smallpox . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9
Tuberculosis . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Total	1	3	4	14	8	15	1	8	4	6	15	6	5	3	96	189

CONTAGIOUS DISEASE BY YEARS, 1895-1903.

DISEASE.	1895	1896	1897	1898	1899	1900	1901	1902
Measles	8	17	380	109	10	117	467	75
Mumps .....	..	..	..	..	..	..	..	..
Chicken pox .....	..	..	..	..	..	..	3	4
Whooping cough .....	..	..	..	..	..	..	2	30
Scarlet fever	23	20	18	23	20	35	33	23
Diphtheria	25	17	11	5	14	40	52	35
Smallpox .....	..	..	..	..	1	..	..	9
Tuberculosis .....	..	..	..	..	..	..	..	1
Typhoid fever .....	..	9	2	..	12	19	17	12
Totals	56	63	411	137	57	201	574	189

DIPHTHERIA.

This disease attacked 35 persons, one of whom died. Several severe cases occurred but their severity was soon modified by antitoxin. Physicians used larger doses of antitoxin than in previous years and with good results. None of the cases were released without a negative culture from the throat, although it took several weeks to obtain a negative result from a few. The culture tubes were not used for diagnosis in all cases, the physician depending upon the clinical signs. The Board wishes that more tubes might be used for diagnosis as it displaces the old and less scientific method.

SCARLET FEVER.

There were twenty-three cases of scarlet fever during the year. Generally speaking they were mild or moderately severe; one, however, proved fatal. The serum treatment of this disease has proved to be of value in certain places, and the Board of Health is willing to supply the antistreptococcus serum for use in this disease.

MEASLES.

Seventy-five cases were reported for the year. There were undoubtedly more. Many of the people ill with this disease had no doctor, consequently he was not responsible for not reporting them. In some cases he would not report them because it was natural to expect he might forget. The parents often notified the Board of cases in their homes.

The superintendent of schools was instructed not to allow pupils to return to school until they had been released either by their family doctor or the physician of the Board of Health and the proper blank filled out and sent to the teacher of the school.

Children in the same house where the disease existed were prevented from attending school.

WHOOPIING COUGH.

The table shows forty cases of whooping cough. This number is not one-fourth of the number of cases that occurred. The number tabulated was the report of not more than three or four physicians. The disease was very prevalent. Many families were besieged by it for weeks and the suffering was extreme. It is highly contagious, and because of its complications is one of the most serious communicable diseases. Its dangers are apparent when we have had three deaths, and when there were 210 deaths in Massachusetts for 1901. If the physicians would report their cases we could instruct the family about the disease, and limit the spread by enforcing certain requirements. Houses are placarded in which the disease occurs and the same certificate is required as for mumps and chicken pox.

MUMPS.

The table shows no cases reported and there were at least 125 cases during the year. The reason that none were reported was that most were very mild and even if more or less severe no physician was called to treat them as this disease is regarded by parents as mild, free from danger, and usually responding to domestic remedies. Even the cases that were seen by physicians probably required only a visit or two and so they quickly passed from their minds and were not reported. Children in the household where the disease existed were allowed to attend school on presenting a proper certificate signed by a physician that they showed no evidence of the disease, and when the patient recovered the proper certificate was required before he could again attend school.

CHICKEN POX.

There were more than four cases of chicken pox during the year. The Board asked physicians to report so that they might investigate them to prevent mistaking it from small pox. Few obeyed the request. Although it is not a serious disease and is generally mild, its similarity to small pox to an inexperienced eye is a sufficient reason for a mistaken diagnosis. Like most of the communicable diseases that occur in childhood, it is often conveyed by children at school when the disease is mild.

We placarded the house in all cases that were reported and required a certificate to return to school.

TYPHOID.

Twelve cases were reported. A few more unreported cases would complete the list. It would be a great help to this department if all cases could be reported as the source of contagion is usually investigated and if within our power, is remedied.

One death occurred from typhoid fever, a low mortality for the number of cases. Several cases could be directly traced to those in Wakefield as it was prevalent in that town.

TUBERCULOSIS.

One case was reported in 1902, while the rooms of nineteen patients were disinfected. This is the best example of the neglect of physicians to aid the Board in their endeavors to ascertain the number of persons suffering from contagious diseases.

If this disease is to be controlled it can only be done by placing tubercular patients under the best hygienic conditions. If we knew where these patients were, we could advise them in the care of themselves as well as their sputum. By giving the proper advice and offering certain suggestions the disease could be modified and the spread of infectious sputum controlled.

DISINFECTION.

Formaldehyde has been used for the past three years for disinfection. It is superior to other methods of disinfection because it is easily generated and not destructive to household property. We shall require the room occupied by a patient ill with a contagious disease to be more thoroughly cleaned by the householder than in the past. It has been the custom of people to depend wholly upon the disinfection of the Board of Health, and not to clean the walls, floors or ceilings and the furniture of the room occupied by the patient. No room will hereafter be considered properly disinfected until a culture of the baccillus of diphtheria gives no growth when taken from the room which has been disinfected and closed for 24 hours.

One hundred and three disinfections have been done during the year as follows:

On account of:

Small pox,	24
Diphtheria,	28
Scarlet fever,	24
Tuberculosis,	19
Measles,	2
Typhoid fever,	1
Miscellaneous,	5

BACTERIOLOGICAL LABORATORY.

The importance of a laboratory where bacteriological diagnoses can be made was called to the attention of His Honor and the Honorable Board of Aldermen in our last report. We have had the same difficulty this year as last inasmuch as we were unable to furnish physicians with a bacteriological report until considerable time had elapsed, owing to the fact that the material was sent to the laboratory of the State Board of Health, and the report returned to us after the elapse of at least 48 hours and sometimes longer. We have furnished to physicians 88 culture tubes for diagnosis or release of diphtheria patients and 50 bottles of antitoxin were delivered. The sputum of 24 persons has been examined for tuberculosis, and the blood of four patients for malaria, and eight for typhoid fever. On about July 1 next year, or perhaps earlier, we shall open an experimental laboratory. The apparatus will be loaned and we shall be able to determine how successfully it can be conducted. Examinations will be made gratis.

We hope during the next year that more antitoxin will be used as this has been found to be of value in other diseases as well as diphtheria, particularly in whooping cough and scarlet fever. In a short time we shall expect to have an antitoxin for scarlet fever, as successful results have been obtained by using serum taken from patients convalescing from that disease.

INSPECTION OF PUBLIC SCHOOLS.

Our reasons for attempting to carry on this important work were stated in our report of last year, and we hope by constant repetition to attract sufficient attention so that we may have an organized corps of medical inspectors. A sufficient number of medical men should be chosen to have medical supervision of the schools. They could detect diseases in their first stages, and if they were of a communicable type they would at once exclude the patient from school. These physicians could also attend to the sanitary condition of the schools, as well as to the hygiene of pupils and the school room. One of their duties should be, until a city physician is appointed, to visit persons ill with con-

tagious diseases and see that they are properly isolated. They would also take release cultures from those who have had diphtheria, as well as do the public vaccinating. As their offices would be scattered throughout the city, they would be readily accessible to pupils when they wished to obtain a certificate to return to school.

THE NEED OF A PHYSICIAN.

The Overseers of the Poor in conjunction with the Board of Health, should have an appropriation sufficient to employ a physician who would be physician to the Board of Health and in connection with the care of the sick poor, his duties for the Board of Health would be to attend all persons ill with communicable diseases who are dependent on this Board for their support. He should not, however, be obliged to attend small pox cases. He should be required to investigate all communicable diseases to determine whether they were sufficiently isolated, and take necessary cultures for release of diphtheria. The medical man chosen should be properly trained in microscopical diagnosis so that he could do the bacteriological work for the Board of Health.

NUISANCES INSPECTED, 1902.

Rubbish,	11
Overflowing cesspools,	29
Defective drains,	5
Offensive privies,	5
Manure,	5
Unclean premises,	6
Stagnant water,	1
Pigs in stable.	2
Wet land,	1
Garbage thrown on vacant land,	2
Defective sanitary arrangements,	2
Dammed brook,	1
Hens in cellar,	1
Complaints made and no nuisance found,	5
Total,	76

NUISANCES.

The number of nuisances which were investigated as shown in the table was 76. They were of similar nature as those of last year, but the total number for 1901 was greater.

The Board of Health is often asked to investigate nuisances which prove to be the outcome of a quarrel between neighbors. They never would have appealed to the Board in these cases unless they intended it as an act of revenge and too often the so called nuisance is of no importance. No record is kept of such cases. An appropriation of \$150 was made by the Board of Aldermen for the purpose of making sanitary inspections and that sum was exhausted by paying for the inspection of each nuisance as well as paying for other sanitary work which was done for this department.

SANITARY INSPECTOR.

The office of sanitary inspector or health officer should be created and the necessary appropriation made. In order that the Health Department may do the best possible work, such a person should be at our disposal. He should not only be required to investigate the complaints which are reported, but should look for defects in sanitation as a large number of these are constantly existing. The condition of meat markets and refrigerators, the cleanliness of soda fountains, the sinks and arrangements used in connection with them in some cases is too filthy for description. Soda fountain tumblers are often dirty and not properly washed. The danger of contagion at soda fountains is one that has not been properly considered. Tenement houses should be regularly inspected, because those which have been called to our attention were in an extremely filthy condition. The back yards of many business places in this city are untidy and unsanitary. Laundries should also be investigated. The sanitary inspector should see to it that vacant land is not used for dumping places, and should also have supervision over the public dumps. Had we such an inspector Dix Pond might present a better appearance.

The condition of fruit stands, particularly the back rooms and the conditions under which fruit is kept are such that if they were known less fruit would be sold in Melrose.

The milk rooms of dairies should be under constant supervision. There are other defects in sanitation which we shall not mention, but simply refer to the foregoing in order to show the need of such an officer. The inspector in connection with duties mentioned could do the disinfecting and superintend the collection of ashes, but in order to properly carry out his work, it would be necessary for him to have a horse and carriage.

CONTROL OF BARBERS.

The Board has passed rules and regulations regarding barber shops and persons employed therein. Eight barber shops have been inspected. Most of them are conducted properly while two or three have to be visited often in order to have our rules obeyed.

We have investigated a few cases of eruptions on the face which were undoubtedly conveyed by barbers.

UNDERTAKERS.

The Board has licensed the following number of undertakers as the law directs:

Albert J. Walton, 369 Franklin street; S. W. Harvey, Grove street; Ansel B. Pierce & Son, Main street; John H. Gately, 20 Circuit street, and Richard Philpot, Dell avenue.

BAKERIES.

The law requires that bakeries shall be inspected, and any alteration that may seem necessary by the Board of Health shall be required. The Board has investigated the bakeries in this city and have found them in the proper condition to conduct their business. The following are those inspected: Friend Bros., R. P. Fleming, Winsby & Hensby, J. A. Dill & Co. and Wm. C. Coggin.

PEDDLERS.

The Board of Health is required to issue permits to persons peddling food products, and fifty such persons have been permitted to peddle during the year. The Board requires that every person, before given permission to peddle food products, shall have his weights and measurers sealed by the Sealer of Weights and Measures. This new requirement was passed by the Board last year.

BOARDING HOUSES FOR INFANTS.

Four boarding houses for infants have been approved by this Board and licensed by the State Board, namely:

Mrs. Emma R. Hitchins, 6 Waitt street.

Mrs. Anna M. Pratt, off Swain's Pond avenue.

Mrs. Clara J. Manley, 335 E. Foster street.

Mrs. Elise Mullett, 42 Swain's Pond avenue.

GARBAGE.

The Board of Health received four bids for the collection of garbage as follows: Levi Elms, \$1,176.00; Robert Philpot, \$1,140.00; Thomas R. Higgins, \$1,000.00, and George W. Higgins, \$960.00.

The bid of George Higgins was accepted. The sum which we shall pay is not sufficient because the proper wagons and men cannot be obtained for that small sum. A portion of the garbage will be sold to be used out of town while the remainder will be fed to swine owned by the contractor. It would be better for the city to collect garbage and feed it to swine kept at the City Farm or else to cremate it.

Thomas R. Higgins collected it in a satisfactory manner in 1902. We had 24 complaints to investigate. We regret that this faithful person lost the contract because of a lower bid. The contractor buried 24 dead animals during the year.

NIGHT SOIL.

C. L. Hoffman was licensed to do this work, and was given 127 permits to empty vaults and cesspools during the year. The disposal of this substance has given us the usual

amount of trouble. One of the following methods should be used. It should be mixed with manure and then plowed into the ground, or buried in trenches. This presents a great obstacle, however, because wherever the place of disposition is located, we are sure to have a great many complaints. The City Farm is the only place where it can be done with little annoyance to people. After careful consideration by this Board, we have concluded that the proper method of disposal is the tank method described in our last report and we hope to obtain the necessary appropriation for next year.

PUBLIC URINALS.

Two small buildings should be constructed which should contain public toilet conveniences for both men and women. These buildings could be built at a very small expense to the city and the public would no longer have to depend upon stores, stations and public buildings, and also private houses.

Complaints have already been made to the Board of the nuisance of people asking admission to houses in the vicinity of Main and Franklin streets at the Highlands. At this place a large number of people congregate to wait for the cars. One such building should be erected on the place now called Dix Pond which will soon be filled up and abolished; the other on the lot of land on the south of the Franklin school.

SEWERS.

Chapter 49, Sections 31, 32 and 33 of the Revised Laws of Massachusetts provide for an appropriation by cities and towns for the connection of estates with the public sewers. If such an appropriation could be made in accordance with the law, it would do away with the difficulty which is always present when we try to compel people to connect their premises with the sewer. The reason offered by the people at these times is that they cannot afford it, or their financial condition will not permit, and always ask us to be lenient with them until some future time. In some cases the Board

has allowed an extention while in others they were compelled to require the sewer connection with great inconvenience to the owner of the premises. We request that a sufficient appropriation be made so that the Board can connect these estates when necessity demands it.

The total number of houses on sewered streets is 2646. Of this number 2115 are connected with the sewer, which leaves a remainder of 531 houses not connected with the public sewer. This number is far too large when we consider the expense which the city has been obliged to undergo in order to construct a public sewer, and this number should be connected during the next two years. Eighty-seven houses were connected in 1902, a small proportion of the unconnected houses. The following streets were sewered during 1902: Hesseltine avenue from Howard street to Highland avenue, right of way from Highland avenue to Boardman avenue, Hawes avenue from Boardman avenue to Heyward avenue, Heyward avenue, Damon avenue from Heyward to Frost avenue, Frost avenue from Damon avenue to Hawes avenue, Boardman avenue from Main street to the brook, Pearl street from Main street to about 900 feet east, Howie court, Henry avenue, Corey place and Argyle street.

Thirty-nine houses located on these streets were connected with the newly constructed sewer. The following streets should be sewered: Union street, East Foster street from Sixth street (East), Ashland place, the streets surrounding the property belonging to the Boston Rubber Shoe Co., namely, Brazil street to Washington street, Washington street from Brazil street to Goodyear avenue entire, and Main street south from Goodyear avenue to the Malden line, also Burrell street and Highland avenue, east of Main street.

EXPENDITURES FOR 1902.

CONTINGENT.

Appropriation,	\$650 00
Reimbursements,	49 00
	<hr/>
	\$699 00

Expended:

For express,	\$13 75	
" telephone (dept.) ½ payment,	19 96	
" dead animals,	21 00	
" printing,	83 14	
" furniture and furnishings (\$33.48 of which to be refunded by Over- seers of the Poor,)	248 46	
For clerk,	104 00	
" sanitary inspection,	150 00	
" miscellaneous,	49 15	
	<hr/>	
	\$689 46	\$689 46
Balance,		10 00
		<hr/>
		\$699 46
Appropriated for disinfection,	\$200 00	
Expended " "	200 00	
	<hr/>	
Appropriated for plumbing inspection,	\$650 00	
Expended " " "	650 00	
	<hr/>	
Appropriation for collection of garbage,	\$1,200 00	
Expended " " " "	1,180 00	
Balance to 1903,	20 00	
	<hr/>	
		\$1,200 00
Balance of appropriated for collection of ashes,	\$318 50	
Expended for collection of ashes,	318 50	
	<hr/>	

Respectfully submitted,

PAUL H. PROVANDIE,
JOSEPH H. ROBINSON,
JOHN T. TIMLIN.

Report of Inspector of Cattle and Provisions.

February 18, 1903.

To the Honorable Board of Health, Melrose, Mass.:

GENTLEMEN : I have to report the whole number of cows: 116 cows, 1 bull and 4 young cattle.

Whole number of swine, 1,371.

Whole number of swine slaughtered and dressed for market, 1,197. Have not had a case of glanders this year and find cattle, swine and horses free from any contagious disease.

Have measured and reported to the State Board of Cattle Commissioners, forty-three stables. Have made seventy-eight visits, as I had to go two and three times to many stables to inspect cows.

WM. H. DOLE.

Report of the Inspector of Plumbing.

To the Board of Health, Melrose, Mass. :

GENTLEMEN:— Below you will find a copy of my annual report as Inspector of Plumbing.

Number of applications received,	268
“ “ permits granted,	268
“ “ “ for sewer connections,	94
“ “ “ “ cesspool connections,	31
“ “ “ “ alterations and repairs,	24
“ “ “ “ ventilation (only)	4
“ “ “ “ additional fixtures,	115
Total,	268
Total number of fixtures installed,	352
“ “ “ wash bowls,	57
“ “ “ bath tubs,	55
“ “ “ water closets,	93
“ “ “ sinks,	80
“ “ “ wash trays,	54
“ “ “ urinals,	5
“ “ “ ice chests,	3
Total,	352

Respectfully submitted,

JOHN T. BARKER.

Report of Inspector of Milk.

MELROSE, January 1, 1903.

To the Honorable Board of Health, Melrose, Mass.:

Total number of stores and restaurants selling milk and paying license in Melrose, 36.

Total number of individuals and milkmen selling milk and paying license in Melrose, 52.

During the past year the stores have all been inspected and samples have been taken. In most cases the milk has been up to the standard and in a few cases it has been below the percentage a slight amount, but not enough to find a case against the parties.

The milk which is raised by the people who have a few cows (and there are quite a large number) is very good and stands well. That which the larger dealers sell stands just about what the law calls for and sometimes runs below a small amount. A number of samples have been taken and tested. The large producers of milk in Melrose take good care of their creameries and are very careful to keep to the rules laid down by the Board of Health.

The coming year it is hoped that with past experience the work may be more thoroughly carried on, and a new card system has been established. When all tests of milk are analyzed they can be found at the Board of Health office.

Yours respectfully,

WILLIAM S. BRIRY,

Inspector of Milk.

Report of the Inspector of Buildings.

January 1, 1903.

Hon. Mayor Buttrick and the Hon. Board of Aldermen :

GENTLEMEN: This, the third annual report of this department, does not show as much of an increase in buildings as last year, but the buildings which have been erected, are of a good class, and can be termed a healthy growth.

A few manufacturing establishments located in our city, would be a benefit to building, a help in taxes, and cause an increase in our population.

I most respectfully recommend a fund of \$50.00 be placed at the disposal of this department for contingent expenses, for the year 1903.

The following table shows the number of inspections made by this department, and the character of alterations ordered :

Inspection of chimneys,	19
Dangerous chimneys,	19
Faulty fire-place construction,	2
Changes ordered in furnace pipes	3
Changes in plans submitted,	2
Inspection of buildings in construction,	203
Inspection of boilers,	2
Inspection of fire escapes,	21
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Total,	377

The following table shows the number of permits granted for each month of the year 1902:

INSPECTOR OF BUILDINGS REPORT.

251

January,	2
February,	3
March,	16
April,	10
May,	12
June,	7
July,	9
August,	5
September,	7
October,	12
November,	9
December,	7
Total,	99

The following table shows the number of permits granted in each ward, and the use for which they were intended:

Buildings.	Wards							Totals
	1	2	3	4	5	6	7	
Additions	2	6	6	1	2	6	7	30
Alterations and Repairs	1	3						4
Carriage Houses	1			1			1	3
Chimneys								
Dwellings	1	7	3	2	2	4	3	22
Factories			1			1		2
Foundations	2	2	1			2		7
Stables	1	1	1	1			3	7
Stores and Offices							1	1
Store Houses		1		2	1	3	2	9
Miscellaneous	1	6	3	3		1		14
	9	26	15	10	5	17	17	99

COST OF BUILDINGS FOR THE YEAR 1902.

	Ward 1.		Ward 2.		Ward 3.		Ward 4.		Ward 5.		Ward 6.		Ward 7.		Totals	
	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs	New	Repairs
January.....	\$1,600	.....
February.....	3,600	\$1,200
March.....	8,610	2,230
April.....	5,660	1,325
May.....	7,345	975
June.....	2,300	235
July.....	9,700	150
August.....	16,200	750
September.....	3,025	2,225
October.....	1,235	6,300
November.....	9,150	150
December.....	2,960	1,250
	\$4,330	\$2,650	\$17,520	\$8,560	\$7,140	\$425	\$18,325	\$700	\$8,025	\$125	\$10,670	\$1,700	\$2,630	\$8,375	\$74,385	\$16,790

IN CONCLUSION.

I wish to thank His Honor the Mayor, and other departments for assistance rendered.

Respectfully submitted,

W. A. GOODNO,

Inspector of Buildings.

Report of the Sealer of Weights and Measures.

To His Honor the Mayor and Board of Aldermen of the City of Melrose:

GENTLEMEN: I herewith respectfully submit the annual report of the sealer of weights and measures department for the year ending January 31, 1903.

EXPENSES.

Salary from Feb. 1, 1902 to Feb. 1, 1903,	\$200 00
1 branding iron,	1 25
4 steel stamps,	2 35
3 rubber stamps,	75
1 ink pad,	25
1 comb torch,	4 00
400 green gummed seals,	3 00
$\frac{1}{4}$ lb. acid,	1 50
1 graduate 8 oz.,	75
2 rubber pads,	60
Express charges,	30
1 pc. chamois and candle,	10
1 oz. graduate,	25
Posting 100 Posters,	2 00

Total expenses from Feb. 1, 1902, to Feb. 1,

1903, \$217 10

EARNINGS OF DEPARTMENT.

Total amount of earnings from Feb. 1,	
1902, to Feb. 1, 1903,	\$41 53
The amount uncollected due department,	3 03
	<hr/>
	\$38 50
Unpaid bills of previous financial year paid to	
treasurer,	2 44
	<hr/>
	\$40 94

OPERATIONS OF THE DEPARTMENT FROM
FEB. 1, 1902, TO FEB. 1, 1903.

Number of scales 5,000 lbs. to 10 tons capacity tested	4
“ “ 5,000 “ capacity,	3
City scales,	1
Number of portable platforms tested,	27
“ counter “ “	3
“ spring balances tested,	67
“ trip scales tested,	6
“ counter balances tested,	48
	<hr/>
Total number scales tested.	159
Number of scales tested and found correct,	149
“ “ “ “ adjusted before sealing	6
“ “ that were condemned,	4
	<hr/>
Total number scales tested,	159
Number of weights tested and found correct,	390
“ “ “ “ “ light and ad- justed,	31
Number of weights tested and found heavy and ad- justed,	12
	<hr/>
Total number weights tested,	433

SEALER OF WEIGHTS AND MEASURES REPORT. 255

Number of dry measures tested and found correct,	171
“ “ “ “ “ condemned, .	3
	<hr/>
Total number dry measures tested, . . .	174
Number of wet measures, including glass milk jars and cans, tested and found correct, . . .	4,142
Number of wet measures, including glass jars tested and condemned,	159
	<hr/>
Total number wet measures tested, . . .	4,301

THE AMOUNT OF WORK DONE IN THE OFFICE FROM
FEB. 1, 1902, TO FEB. 1, 1903.

Scales of all descriptions tested,	33
Weights tested,	42
Dry measures tested,	93
Wet measures, including milk cans, tested, . .	4,046
Yardsticks,	5
Coal baskets,	12
	<hr/>
Total pieces tested in the office, . . .	4,231

Yours respectfully,

WILLIAM L. PIERCE,

Sealer of Weights and Measures.

MELROSE, February 3, 1903.

REPORT
OF THE
CITY AUDITOR
OF THE
CITY OF MELROSE.

To His Honor the Mayor and the Board of Aldermen:

GENTLEMEN:—I have the honor to submit herewith a statement of the receipts and expenditures of the City of Melrose, beginning on the first day of February, 1902, and ending of the financial year on the thirty-first day of January, 1903, with a detailed statement of each department, a statement of assets and liabilities, a table showing the funded debt, the dates on which the notes and bonds are payable, together with a schedule of the city property.

Respectfully submitted,

EDWIN C. GOULD,

City Auditor.

City of Melrose, Auditor's office.

FINANCES.

The assessed valuation of the city, May 1, 1902 was:

Real estate,	\$13,708,975 00
Personal estate, including resi-	
dent bank stock,	1,656,505 00
Total valuation,	<u>\$15,365,480 00</u>

Increase in valuation from	
May 1, 1901 to May 1, 1902,	474,715 00

Number of dwelling houses,	
May 1, 1902,	3,280

Population,	13,369
-----------------------	--------

Rate of taxation for \$1,000 for 1902 (\$17.20)

was divided as follows, to wit :

City tax,	\$15 61
County tax,	61
State tax,	16
State Metropolitan Park,	13
State Metropolitan Sewerage,	69

\$17 20

The municipal debt, Jan. 31, 1902,	85,000 00
Increase "	<u>10,000 00</u>

\$95,000 00

Decrease by payments,	<u>34,000 00</u>
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Total municipal debt, Jan. 31, 1903,	\$61,000 00
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Total decrease for the year,	24,000 00
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CITY OF MELROSE MUNICIPAL DEBT.

JANUARY 31, 1903.

Park loan, note due May 15, 1903, .	\$1,000 00
" " " " " " 1904, .	1,000 00
" " " " " " 1905, .	1,000 00
" " " " " " 1906, .	1,000 00
" " " " " " 1907, .	1,000 00
" " " " " " 1908, .	1,000 00
" " " " " " 1909, .	6,000 00
	<u>\$12,000 00</u>

Public grounds, note due Apr. 25,		
1903,		\$10,000 00
Surface drainage loans:		
Note due Oct. 30, 1902,	\$2,000 00	
" " " " 1903,	2,000 00	
" " " " 1904,	2,000 00	
" " " " 1905,	2,000 00	
" " " " 1906,	2,000 00	
	<hr/>	10,000 00
Central fire station, note due Jan. 4,		
1905,	\$10,000 00	
New school building, note due Jan.		
4, 1905,	6,000 00	
High school grounds, note due Jan.		
4, 1905,	3,000 00	
	<hr/>	19,000 00
Sinking fund comrs., note due March		
25, 1903,		10,000 00
Total,		<hr/> \$61,000 00

BONDED DEBT.

School House Debt.

School house bonds 4%, due Feb.	
24, 1916,	\$200,000 00
Less sinking funds,	19,189 20
	<hr/> \$180,810 80

Sewerage Debt.

Sewer bonds:	
4% due June 1, 1907,	\$25,000 00
" " " " 1912,	25,000 00
" " " " 1917,	50,000 00
" " " " 1924,	100,000 00
" " " " 1925,	100,000 00
" " " " 1926,	50,000 00
	<hr/> \$350,000 00
Less sinking fund,	91,746 77
	<hr/> \$258,253 23

City Hall Debt.

Town hall bonds:

4% due Sept. 1, 1912,	. . .	\$45,000 00
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Water Debt.

Water bonds:

4% due Nov. 1, 1905,	. . .	\$37,000 00
" " May 1, 1907,	. . .	50,000 00
" " May 1, 1912,	. . .	25,000 00
" " Sept. 1, 1912,	. . .	37,000 00
" " Oct. 1, 1913,	. . .	50,000 00
" " July 1, 1925,	. . .	38,000 00

\$237,000 00

Less sinking fund,	. . .	35,566 63
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201,433 37

\$685,497 40

RECAPITULATION OF THE TOTAL DEBT.

JANUARY 31, 1903.

Municipal debt,	. . .	\$61,000 00
School house debt,	. . .	180,810 80
Sewerage debt,	. . .	258,253 23
City hall debt,	. . .	45,000 00
Water debt,	. . .	201,433 37

\$746,497 40

DEBT STATEMENT.

Total amount Jan. 31, 1902,	. . .	\$776,406 23
Decrease in 1902,	. . .	29,908 83

\$746,497 40

Decrease in schoolhouse debt,	. . .	644 17
" " sewerage debt,	. . .	3,460 15
" " water debt,	. . .	1,804 51

\$5,908 83

Decrease in municipal debt,	. . .	24,000 00
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Net decrease,	. . .	\$29,908 83
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CASH ACCOUNT FOR 1902.

Cash on hand, Jan. 31, 1902, . . . \$8,838 96

RECEIPTS.

Cemetery dept.,	\$5,662 02	
Charity "	2,867 38	
Commonwealth of Mass.,	17,710 17	
Health dept.,	104 45	
Public library,	2,173 26	
Public library building,	1,000 00	
Public works dept.,	15,397 38	
School dept.,	987 85	
Sewer assessments,	13,567 41	
Sundry accounts,	1,135 99	
Taxes collected,	258,230 09	
Tax titles, redemption of, . . .	3,799 26	
Temporary loans,	198,203 33	
Trust funds income,	1,609 90	
Treasury,	2,726 12	
Water dept. income,	48,854 96	
Permanent loan,	10,000 00	
	<hr/>	584,029 57
		<hr/>
		\$592,868 53

By payments:

February,	\$26,466 19
March,	38,747 49
April,	29,109 68
May,	38,423 52
June,	30,847 92
July,	26,785 73
August,	25,728 83
September,	48,684 21
October,	73,599 74
November,	51,005 24
December,	77,532 89
January,	108,452 75
	<hr/>
	\$575,384 19

January 31, 1903, Cash on hand, . . . 17,484 34

592,868 53

TREASURY.

Balance, Jan. 31, 1902,	\$1,656 30
---------------------------------	------------

RECEIPTS.

Briry, W. S., inspector of milk, fees,	\$43 50
Charity dept., cities and towns, .	233 02
" " Com. of Mass., support	
of paupers,	418 65
Fire dept., old hose, junk and ma-	
nure sold,	52 87
Fire dept., old horses sold, . . .	275 00
First District Court, fines, . . .	264 09
House of Correction, "	50 00
Hunter, W. D., rent of city hall, .	379 77
" " old building sold	
park dept.,	50 00
Jones, W. DeH., city clerk, fees, .	564 00
Pierce, W. L., sealer of weights and	
measures, fees,	40 94
Sidewalk collections,	354 28

\$2,726 12

Transferred from unexpended bal-	
ance, 1901,	1,401 34
Transferred from Health dept., con-	
tagious diseases,	1,000 00

5,127 46

\$6,783 76

EXPENDED.

Transferred to	
Aldermanic contingent,	\$ 55
Brown tail moth,	300 00
Charity dept.,	1,318 87
City clerk contingent,	500 00
" hall contingent,	47 67
" hall lighting,	97 78
" scales,	100 00
Claims,	850 00

Fire dept.,	\$21 65	
General contingent,	4 22	
Health dept., contagious diseases,	1,000 00	
Health dept., isolation hospital,	600 00	
Highway division,	165 42	
Police dept.,	255 22	
Public library,	36 00	
Public works office,	11 90	
School dept.,	358 33	
Sidewalk division,	686 54	
Taxes refunded,	93 86	
	<hr/>	\$6,448 01
Balance to 1903,		\$335 75

LEDGER BALANCES, JANUARY 31, 1903.

Bonds of city officers,		\$23 00
Cash,	\$17,484 34	
Cemetery,	7,852 18	
Charity dept.,	681 44	
Com. of Mass.,	3,024 23	
Contingent:		
Aldermanic,		7 79
Assessors,		2 35
General,		7 06
Inspector of buildings,		50 00
Mayor's,		7 58
Sealer of weights and measures,		10
Fire dept.,	233 74	
Health dept.,	162 61	
Insurance,		53 72
Interest,		4,634 49
Military aid,	244 73	
Police dept.,		43 55
Public library,		1,134 04
Public library building,		304 47
Salaries,		33 33
School dept.,	491 38	
Soldiers' relief,		363 52

State aid,	\$220 50	
Taxes uncollected,	127,388 38	
Tax titles,	8,491 25	
Treasury,		\$335 75
Trust fund, cemetery,		8,984 00
" " Toothaker,		1,327 10
Overlays,		5,627 28
Loans, temporary		147,703 33
Sewer assessment,	59,588 58	
" " fund,		62,242 39
Deficiencies,	16,515 94	
Public works dept.:		
City hall,		274 58
Collecting ashes,		877 00
Engineering division,		39 70
Highway "		514 57
Park "		63 53
Public works office,		23 75
Sewer division,		4,076 78
Sidewalks,		1,344 05
Street lights,		233 13
" sprinkling,	2,430 06	
Surface drainage,		387 67
Water division construction,	9,302 29	
" " fund,		10,354 70
Wells drain,		615 50
Aldermanic chamber,		15 60
Brown tail moth,	500 00	
City hall improvement,		7 10
" scales,		29 43
Dix pond,		50
Fourth of July celebration,	500 00	
Gypsy moths,		1 25
History of Melrose,		554 77
Improvement of common,		8 72
Life saving apparatus,		22 73
Repairs, city hall basement.		13 54
Soldiers' monument,		8 55
	<hr/>	<hr/>
	\$255,111 65	\$252,352 00

Municipal and permanent debt,	\$67,000 00	
School house debt,	200,000 00	
Sewer debt,	350,000 00	
Water debt,	237,000 00	
City hall debt,	45,000 00	
Schoolhouse loan sinking fund com.,	19,189 20	
Sewer loan sinking fund com.,	91,746 77	
Water " " " "	35,566 63	
Municipal and permanent loans,		\$61,000 00
School house bonds,		200,000 00
Sewer bonds,		350,000 00
Water "		237,000 00
City hall bonds,		45,000 00
School house loan sinking fund,		26,411 20
Sewer loan sinking funds,		91,746 77
Town hall loan sinking funds,		1,537 65
Water loan sinking funds,		35,566 63
		<hr/>
	\$1,300,614 25	\$1,300,614 25

CITY OF MELROSE, BALANCE SHEET.

JANUARY 31, 1903.

ASSETS AND LIABILITIES FROM APPROPRIATIONS.

1898 to 1902.

Assets.

Cash in treasury,	\$17,484 34
Due from cemetery,	\$7,852 18
" " charity department,	683 58
" " fire department,	250 00
" " health department,	199 15
" " military aid,	244 73
" " school department,	539 23
" " state aid,	220 50
" " street sprinkling,	2,430 06
" " water construction,	9,302 29
" " Commonwealth of Mass.,	3,024 23
" " uncollected taxes,	127,388 38
" " tax titles,	8,491 25

Due from deficiencies,	\$16,515 94	
“ “ Fourth of July celebration,	500 00	
“ “ brow tail moths,	500 00	
“ “ permanent loan, note paid,	6,000 00	
	<hr/>	\$184,141 52
		<hr/>
		\$201,625 86

Liabilities.

By cemetery trust funds,	\$8,984 00
“ Toothaker “ “	1,327 10
“ overlays,	5,627 28
“ charity department,	2 14
“ aldermanic contingent,	7 79
“ general contingent,	7 06
“ sealer of weights and measures,	10
“ inspector of buildings,	50 00
“ mayor's contingent,	7 58
“ assessors' contingent,	2 35
“ bonds of city officers,	23 00
“ fire department,	16 26
“ health department,	36 54
“ insurance,	53 72
“ interest,	4,634 49
“ police department,	43 55
“ public library,	1,134 04
“ “ “ building,	304 47
“ salaries,	33 33
“ school department,	47 85
“ soldiers' relief,	363 52
“ engineering,	39 70
“ park,	63 53
“ city hall,	274 58
“ collecting ashes,	877 00
“ highways,	514 57
“ city scales,	29 43
“ Dix pond,	50
“ life saving apparatus,	22 73

To public works office,	\$23 75	
“ sewer division,	4,076 78	
“ Wells drain,	615 50	
“ sidewalks,	1,344 05	
“ surface drainage,	387 67	
“ street lights,	233 13	
“ water fund,	10,354 70	
“ treasury,	335 75	
“ temporary loans,	147,703 33	
“ aldermanic chamber,	15 60	
“ history of Melrose,	554 77	
“ improvement of common,	8 72	
“ city hall improvement,	7 10	
“ soldiers’ monument,	8 55	
“ gypsy moth,	1 25	
“ repairs city hall basement,	13 54	
“ school sinking fund,	7,222 00	
“ city hall sinking fund,	1,537 65	
“ sewer assessments collected,	2,653 81	
	<hr/>	\$201,625 86

CITY OF MELROSE, ASSETS AND LIABILITIES

Assets.

To amount invested in land, buildings, parks and other property,	\$767,960 07
To amount invested in school house sinking funds,	19,189 20
To amount invested in sewer sinking funds,	91,746 77
To amount invested in water sinking funds,	35,566 63
Total cost of Melrose sewer sys- tem,	377,859 27
Total cost of Melrose water sys- tem,	451,393 05
Total cost of Melrose surface drainage,	18,960 98
	<hr/>
	\$1,762,675 97

Liabilities.

By total municipal indebtedness,	\$903,311 10
Assets exceed liabilities,	859,364 87
	<hr/>
	\$1,762,675 97
	<hr/>
	\$1,762,675 97

AUDITOR'S REPORT SHOWING AGGREGATE TRANSACTION IN EACH CITY ACCOUNT.

ACCOUNTS.	Balance from 1901.	Appropriations	Transfers to	Receipts.	Overdrawn 1901.	Transfers from	Expenditures	Unexpended balance.	Overdrawn
Aldermanic chamber, seats.	\$60.00	.....	.....	.....	.....	.....	\$ 44.40	\$ 15.60	.....
Cemetery .....	.....	.....	.....	\$5,662.02	.....	.....	5,455.82	206.20	.....
Charity department.....	.....	\$1,375.97	.....	.....	\$1,375.97	.....	.....	.....	.....
Aid of poor.....	12.12	8,700.00	\$1,318.87	2,804.38	.....	\$12.12	13,506.83	.....	\$683.58
Clerical services.....	.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Contingent.....	.....	100.00	.....	3.00	.....	.....	100.86	2.14	.....
Claims .....	.....	75.00	1,100.00	.....	75.00	.....	1,100.00	.....	.....
Commonwealth of Mass.	.....	.....	.....	3,229.23	3,229.23	3,024.23	.....	.....	3,024.23
Contingent, aldermanic...	.24	500.00	.55	.....	350.24	.....	142.76	7.79	.....
City clerk.....	1.01	.....	524.11	.....	.....	1.01	524.11	.....	.....
City collector.....	.....	800.00	.....	.....	.....	.....	800.00	.....	.....
General	263.70	2,431.00	1,354.22	.....	.....	752.06	3,289.80	7.06	.....
Inspector of buildings...	9.75	50.00	.....	.....	.....	9.75	.....	50.00	.....
Inspector of milk.....	3.00	.....	.....	.....	.....	3.00	.....	.....	.....
Sealer of W. and M.....	.....	19.00	.....	.....	.....	.....	.....	.....	.....
Mayor's .....	.....	50.00	.....	.....	.....	.....	18.90	.10	.....
Mayor's clerical service.	.....	100.00	.....	.....	.....	.....	42.42	7.58	.....
Assessors, Michigan stock	8.00	.....	.....	.....	.....	.....	100.00	.....	.....
Assessors .....	.17	600.00	.....	.....	.....	8.00	.....	.....	.....
Fire dept., permanent drivers	.....	3,120.00	.....	.....	.....	.17	597.65	2.35	.....
Electrician and driver...	.....	876.00	.....	.....	.....	.....	876.00	.....	.....
Engineer, steamer.....	.....	.....	75.00	.....	.....	.....	75.00	.....	.....
Call men.....	120.81	3,050.00	574.21	.....	1,457.58	.....	2,287.44	.....	.....
Chief engineer.....	.....	150.00	.....	.....	.....	.....	150.00	.....	.....
Assistant engineer.....	.....	100.00	.....	.....	.....	.01	99.99	.....	.....
Asst. engineer and clerk..	.....	125.00	.....	.....	.....	.01	124.99	.....	.....
House steward.....	.....	40.00	.....	.....	.....	20.00	20.00	.....	.....

Hay, straw and grain....	83.59	600.00	500.00	.....	.....	134.16	1,049.43	.....	.....
Coal and wood.....	71.50	325.00	109.71	.....	.....	71.50	434.71	.....	.....
Horse shoeing.....	5.37	150.00	30.00	.....	.....	24.08	161.29	.....	.....
Expressing.....	26.26	25.00	20.00	.....	.....	45.66	25.60	.....	.....
Laundry and new linen....	9.04	75.00	.....	.....	.....	28.13	55.91	.....	.....
Fire alarm.....	10.25	950.00	150.00	.....	.....	167.30	942.95	.....	.....
New hose.....	16.50	490.00	.....	.....	.....	16.50	490.00	.....	.....
Electric and gas lights and telephone.....	101.88	175.00	52.04	.....	.....	101.88	227.04	.....	.....
Contingent.....	41.35	484.00	477.06	.....	.....	226.90	759.25	16.26	.....
Horse for Hose 3.....	.....	350.00	.....	.....	.....	.....	250.00	.....	250.00
Driver for Hose 4.....	.....	250.00	50.00	.....	.....	50.00	300.00	.....	.....
Repairs to Hose 4 house....	.....	1,500.00	.....	.....	.....	4.71	295.29	.....	.....
New horses.....	.....	120.00	.....	.....	.....	150.00	1,350.00	.....	.....
Rubber suits.....	22.00	.....	.....	.....	.....	4.50	115.50	.....	.....
Horse hire.....	.....	.....	700.00	.....	.....	22.00	.....	.....	.....
Health dept., collecting ashes	.....	.....	.....	.....	.....	.....	318.50	.....	.....
Collecting garbage.....	.....	1,200.00	.....	.....	.....	.....	1,180.00	20.00	.....
Compulsory vaccination....	.....	.....	1,000.00	.....	.....	.....	997.79	2.21	.....
Contagious diseases.....	.....	2,500.00	5,513.33	.....	.....	1,000.00	7,012.68	.65	.....
Contingent and clerk ser....	.....	1,063.72	339.95	104.45	.....	.....	1,162.18	5.99	.....
Disinfection.....	.....	200.00	29.00	.....	.....	.....	200.00	.....	.....
Isolation hospital.....	.....	.....	600.00	.....	.....	.....	592.31	7.69	.....
Salary inspec. of plumbing	.....	650.00	.....	.....	.....	.....	650.00	.....	.....
Vaccination.....	.....	.....	.....	.....	.....	.....	199.15	.....	199.15
Interest.....	28.49	2,157.75	.....	.....	.....	.....	2,132.52	53.72	.....
Melrose Hospital.....	5,440.36	24,500	6,652.61	865.85	.....	.....	32,833.33	4,634.49	.....
Memorial Day.....	.....	1,000.00	.....	.....	.....	.....	1,000.00	.....	.....
Military aid.....	.....	200.00	.....	.....	.....	.....	200.00	.....	.....
office dept., salary of chief.	.....	139.94	237.73	.....	.....	.....	453.46	.....	244.73
Salaries of regular officers	.....	1,000.00	.....	.....	.....	.....	1,000.00	.....	.....
Salaries of specials.....	.....	10,037.50	.....	.....	.....	.....	10,037.50	.....	.....
Contingent.....	1.36	735.00	.....	.....	.....	.....	695.02	39.98	.....
	.....	575.00	255.22	.....	.....	1.36	826.65	3.57	.....

AUDITOR'S REPORT SHOWING AGGREGATE TRANSACTION IN EACH CITY ACCOUNT.—Continued.

ACCOUNTS.	Balance from 1901.	Appropriations	Transfers to	Receipts.	Overdrawn 1901.	Transfers from	Expenditures	Unexpended balance.	Overdrawn
Public library, b'ks and sup.	\$59.36	\$ 200.00	\$58.16	\$2,173.26	.....	\$59.36	\$1,297.38	\$1,134.04	.....
Rent and heating.....	25.00	1,200.00	.....	.....	.....	25.00	1,200.00	.....	.....
Salaries.....	.....	1,100.00	.....	.....	.....	22.16	1,077.84	.....	.....
Public library building.....	.....	.....	.....	1,000.00	.....	.....	695.53	304.47	.....
Salaries, Auditor.....	.....	500.00	.....	.....	.....	.....	500.00	.....	.....
Clerk.....	.....	1,200.00	.....	.....	.....	.....	1,200.00	.....	.....
Assistant clerk.....	.....	750.00	.....	.....	.....	.....	750.00	.....	.....
Collector.....	.....	1,000.00	.....	.....	.....	.....	1,000.00	.....	.....
Treasurer.....	.....	750.00	.....	.....	.....	.....	750.00	.....	.....
Assessors.....	75 00	900.00	.....	.....	.....	75.00	900.00	.....	.....
“ assistants.....	.....	150.00	.....	.....	.....	.....	150.00	.....	.....
“ clerk.....	.....	850.00	.....	.....	.....	.....	850.00	.....	.....
Engr. and supt. of pub. wks.	.....	2,250.00	.....	.....	.....	.....	2,250.00	.....	.....
Health board.....	.....	300.00	.....	.....	.....	.....	300.00	.....	.....
Overseers of poor.....	4 16	400.00	.....	.....	.....	4.16	375.00	25.00	.....
Mayor.....	.....	500.00	.....	.....	.....	.....	500.00	.....	.....
Inspec. of animals and prov.	35.86	100.00	.....	.....	.....	35.86	100.00	.....	.....
“ buildings.....	.....	500.00	.....	.....	.....	.....	500.00	.....	.....
“ milk and vinegar	.....	100.00	.....	.....	.....	.....	100.00	.....	.....
Solicitor.....	.....	500.00	.....	.....	.....	.....	500.00	.....	.....
Registrars of voters.....	.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Sealer of W. and M.....	.....	200.00	.....	.....	.....	.....	200.00	.....	.....
Agt. military and state aid	.....	100.00	.....	.....	.....	.....	91.67	8.33	.....
School department:	.....	.....	.....	.....	.....	.....	.....	.....	.....
Teaching and supervision	164.65	56,000.00	400.00	.....	.....	264.65	56,264.01	35.99	.....
Janitors.....	.....	6,004.00	.....	.....	.....	.....	6,004.00	.....	.....
Books and supplies.....	.74	4,000.00	1,200.00	.....	.....	.74	5,199.95	.05	.....

Fuel	7,000.00	1,449.89	.....	1,449.89	450.00	6,538.02	.....
Furniture	500.00	100.00	.....	.....	.29	600.00	.....
High sch. & teachers' lib'y	100.00	.....	.....	.....	.24	99.85	.15
Printing.....	250.00	1.75	.....	.....	.05	251.75	.....
Repairs	2,400.00	2,431.70	.....	1,000.00	.....	3,831.42	.28
Transportation of pupils	535.00	.....	.....	.....	26.00	509.00	.....
Wash. school sidewalk.....	300.00	.....	.....	.....	.....	300.00	.....
Contingent .....	.....	100.88	.....	.....	.....	1,581.45	.....
Soldiers' burial.....	.....	105.00	.....	987.85	46.51	105.00	539.23
Soldiers' relief	3,200.74	154.00	.....	195.61	1,332.78	1,854.05	.....
State aid.....	.....	2,527.50	.....	4.00	.....	2,537.00	.....
Surety bonds.....	193.00	.....	.....	.....	.....	170.00	5.50
Taxes, County	13,355.88	.....	.....	.....	.....	13,355.88	.....
State	6,375.00	.....	.....	.....	.....	6,375.00	.....
Metropolitan park	1,977.83	.....	.....	.....	.....	14,439.38	.....
" sewerag	10,561.13	.....	.....	.....	.....	10,561.13	.....
Overlays	2,861.15	1,893.37	.....	.....	8,085.24	.....	5,627.28
Deficiencies, 1900-1901 .....	.....	.....	.....	14,480.94	1,401.23	837.23	16,515.94
School house sinking fund	7,222.00	.....	.....	.....	.....	7,222.00	.....
Town hall sinking fund.....	1,537.65	.....	.....	.....	.....	1,537.65	.....
Fourth of July celebration .....	.....	.....	.....	.....	.....	.....	.....
History of Melrose	1,500.00	.....	.....	.....	.....	500.00	500.00
Soldiers' monument.....	.....	779.25	.....	.....	.....	945.23	.....
Sewer assessments collected .....	.....	.....	70.53	.....	.....	841.23	.....
Trust Funds, Cemetery	7,427.50	.....	13,567.41	.....	10,913.60	.....	2,653.81
Toothaker	1,419.92	.....	1,556.50	.....	.....	.....	8,084.00
Treasury	1,656.30	.....	53.40	.....	.....	146.22	1,327.10
Taxes, Collected .....	.....	2,401.34	2,726.12	.....	6,448.01	.....	335.75
Refunded .....	.....	8,085.24	258,230.09	.....	6,316.86	.....	259,997.63
Takings .....	.....	93.86	.....	.....	.....	93.86	.....
Debt., municipal.....	.....	.....	3,799.26	7,359.19	.....	4,931.32	8,491.25
Loans, temporary	10,000.00	5,000.00	.....	.....	.....	15,000.00	.....
Permanent	103,121.65	.....	198,203.33	.....	.....	153,621.65	.....
Printing town report.....	3,000.00	.....	10,000.00	.....	.....	19,000.00	6,000.00
.....	212.00	.....	.....	212.00	.....	.....	.....

AUDITOR'S REPORT SHOWING AGGREGATE TRANSACTION IN EACH CITY ACCOUNT.—Continued.

ACCOUNTS.	Balance from 1901.	Appropriations	Transfers to	Receipts.	Overdrawn 1901.	Transfers from	Expenditures	Unexpended balance.	Overdrawn.
Public Works dept., Parks...	\$87.84	\$ 150.00	.....	.....	.....	\$ 87.84	\$ 86.47	\$83.53	.....
Engineering div., salaries.	9.50	1,700.00	\$1,300.00	.....	.....	389.43	2,620.07	.....	.....
" " contingent	58.73	50.00	379.93	.....	.....	58.73	390.23	39.70	.....
Public Works office:									
Board of horse.	.....	300.00	.....	.....	.....	.....	300.00	.....	.....
Clerk and stenographer...	9.50	500.00	.....	.....	.....	9.50	499.50	.50	.....
Contingent .....	.42	200.00	11.90	.....	.....	.42	211.58	.32	.....
Telephone	8.33	75.00	.....	.....	.....	8.33	52.07	22.93	.....
City Hall, Janitor	24.72	750.00	.....	.....	.....	24.72	723.50	26.50	.....
Heating .....	.50	275.00	.....	.....	.....	.50	275.00	.....	.....
Lighting	22.77	1,000.00	97.78	.....	.....	22.77	852.78	245.00	.....
Contingent .....	.08	300.00	47.67	.....	.....	.08	344.59	3.08	.....
Highway division:									
Bridges and culverts....	.....	2,500.00	.....	.....	.....	.....	2,413.98	86.02	.....
Catch basins and drains..	.....	1,000.00	.....	.....	.....	.....	1,000.00	.....	.....
Collecting ashes .....	.....	1,700.00	.....	.....	.....	.....	823.00	877.00	.....
Granite crossings .....	.....	500.00	.....	.....	.....	.....	499.23	.77	.....
Paving gutters .....	.....	2,000.00	.....	.....	.....	.....	2,000.00	.....	.....
Remov. snow and sand. sts.	.....	1,500.00	23.25	.....	.....	.....	1,523.25	.....	.....
Stone bounds	114.24	.....	.....	\$ 4.35	.....	.....	53.80	64.79	.....
General main. and repairs	2.55	14,500.00	5,142.17	3,273.60	.....	2.55	22,552.78	362.99	.....
Sewer division, construction	2,991.61	.....	8,684.48	2,308.29	.....	.....	10,037.36	3,947.02	.....
Maintenance	338.01	500.00	.....	.....	.....	.....	720.56	117.45	.....
Private sewers	80.86	.....	.....	2,034.33	.....	.....	2,102.68	12.31	.....
Contingent	3.15	.....	.....	.....	.....	3.15	.....	.....	.....
Sidewalks:									
Repairs to present walks.	1,000.00	806.00	\$193.34	1,588.21	18.45

[illegible]

ALDERMANIC CHAMBER.

Balance from 1901,		\$60 00
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EXPENDED.

Chairs,	\$44 40	
Balance to 1903,	15 60	
	<hr/>	<hr/>
	\$60 00	\$60 00

CEMETERY.

RECEIPTS.

Cash for dressing,	\$26 50	
" " flowers,	4 00	
" " foundations,	169 00	
" " graves, single.	203 00	
" " interments,	635 00	
" " labor,	231 16	
" " lots, care of,	1,592 11	
" " lots, sale "	2,668 75	
" " markers,	32 50	
" " screen,	6 00	
" " use of tomb,	40 00	
" " vaults,	50 00	
" " wood,	4 00	
	<hr/>	\$5,662 02

EXPENDED.

Books, printing, stamps and tele- phone,	\$62 28
Catch basins, frames and grates,	16 00
Cement and lime,	47 42
Drain pipe,	7 52
Dressing,	132 37
Express and freight,	14 70
Grading soldiers' lot,	75 00
Grass and lawn seed,	24 42
Grave and lot markers,	37 50
Gravel, loam and sod,	559 54
Hardware and tools,	40 80
Plants and shrubs,	64 88

Repairing and sharpening tools,	23 30	
Salary of clerk,	99 20	
State vaults,	49 50	
Sundries,	11 28	
Water closets, office building,	127 50	
“ pipes and fittings,	111 36	
Pay rolls, superintendent, men and teams,	3,951 25	
	<hr/>	5,455 82
Receipts exceed expenditures,		\$206 20

CHARITY DEPARTMENT, 1900.

Balance, overdraft 1901,	\$1,375 97	
Appropriation, March, 1902,		1,375 97

CHARITY DEPARTMENT, 1902.

Aid of Poor.

Appropriation,		\$8,700 00
Transferred from treasury,		1,294 87
Received from Comm. of Mass.	\$591 73	
“ “ Individuals,	516 59	
“ “ Farm,	828 78	
“ “ Boston, city of,	219 48	
“ “ Cambridge, city of,	9 43	
“ “ Danvers, city of,	52 26	
“ “ Everett, city of,	25 00	
“ “ Malden, city of,	111 33	
“ “ Pittsfield, city of,	37 34	
“ “ Woburn, city of,	233 79	
“ “ Braintree, town of,	45 00	
“ “ Hingham, town of,	20 75	
“ “ Hyde Park, town of,	26 00	
“ “ Needham, town of,	109 90	
“ “ Wakefield, town of,	25 00	
“ “ Wenham, town of,	36 00	
	<hr/>	\$2,888 38
		<hr/>
		\$12,883 25

EXPENDED.

See overseers of poor report for details,	\$13,566 83	
Overdraft,		683 58
	<u>\$13,566 83</u>	<u>\$13,566 83</u>

Clerical Assistance.

Appropriation,		\$200 00
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EXPENDED.

See overseers of poor report for details,	200 00	
	<u>\$200 00</u>	<u>\$200 00</u>

CONTINGENT.

Appropriation,	\$100 00	
Cash received,	3 00	
	<u>3 00</u>	\$103 00

EXPENDED.

See overseers of poor report for details,	\$100 86	
Balance to 1903,	2 14	
	<u>\$103 00</u>	<u>\$103 00</u>

CLAIMS.

Appropriation,	\$75 00	
Transferred from treasury,	850 00	
Proceeds of loan,	250 00	
	<u>1,175 00</u>	\$1,175 00
Less overdraft, 1901,		75 00
		<u>\$1,100 00</u>

EXPENDED.

Dennison, Adelaide M., execution,	\$150 00	
Donnocker, D. G., injury to self,	250 00	
Wells, Lucy A., execution,	700 00	
	<u>\$1,100 00</u>	<u>\$1,100 00</u>

COMMONWEALTH OF MASSACHUSETTS.

EXPENDED.

Transferred to military aid, . . .	\$237 73
“ “ soldiers' burial, . . .	105 00
“ “ “ relief, . . .	154 00
“ “ “ state aid, . . .	2,527 50

\$3,024 23

Refunded by Commonwealth Dec., 1903.

ALDERMANIC CONTINGENT.

Balance from 1901,	24
Appropriation,	500 00
Transferred from treasury,	55

\$500 79

EXPENDED.

Advertising,	\$20 50
Portrait of president of board,	40 00
Printing, stationery, etc.,	70 30
Sundries,	11 96

Total expended,	\$142 76
Transferred to general contingent,	350 00
Transferred to treasury,	24
Balance to 1903,	7 79

\$500 79

500 79

CITY CLERK'S CONTINGENT.

Balance, 1901,	\$1 01
Transferred from treasury,	500 00

\$501 01

EXPENDED.

Cash expenses,	\$74 60	
Expressage,	12 95	
Printing and supplies,	96 26	
Returns of births and deaths,	143 65	
Telephone service,	49 46	
Typewriter,	100 00	
Sundries,	23 08	
	<hr/>	
Total expended,	500 00	
Transferred to treasury,	1 01	
	<hr/>	
	\$501 01	\$501 01

COLLECTOR'S CONTINGENT.

Appropriation,	\$800 00
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EXPENDED.

Cash paid for stamps,	\$112 68	
Clerk's salary,	500 00	
Distributing tax bills,	50 00	
Expressage,	15	
Printing,	75 25	
Stationery and supplies,	21 70	
Telephone services,	40 22	
	<hr/>	
	\$800 00	\$800 00

GENERAL CONTINGENT.

Balance, 1901,	\$263 70	
Appropriation,	2,431 00	
Transferred from treasury,	4 22	
" " aldermanic contin-		
gent,	350 00	
Proceeds of loan,	1,000 00	
	<hr/>	
		\$4,048 92

EXPENDED.

Advertising,	\$13 50
Books, stationery and supplies,	30 11
Cash paid for gypsy moths,	84 17
Car fares, box rents and postage,	34 40
Door numbering,	57 65
Expressage,	30
Ice for free fountain,	48 00
Miscellaneous,	101 15
Negatives of overflow brooks,	24 00
Pay rolls, cutting wood,	93 00
" " sundries,	53 41
Portrait of Mayor Larrabee,	50 00
Printing, annual report,	705 66
" miscellaneous,	261 93
Returning births, marriages and deaths,	209 00
Ringing bells,	32 00
Serving notices,	58 40
Telephone services,	75 62
Election expenses :	
Meals for registrars of voters,	13 30
Officer at registration,	11 53
Pay rolls, election officers,	592 50
Posting notices,	43 00
Printing,	596 98
Ward room expenses,	124 30
Total expended,	<u>\$3,313 91</u>
Transferred to gypsy moth account,	\$160 00
" " improvement of common account,	50 00
Transferred to life saving apparatus account,	100 00
Transferred to soldiers' monument account,	29 25
Transferred to street lights account,	125 00
" " treasury,	263 70
Balance to 1903, "	7 06

\$4,048 92 \$4,048 92

INSPECTOR OF BUILDINGS.

Balance 1901,	\$9 75	
Appropriation,	50 00	
	<hr/>	\$59 75

EXPENDED.

Transferred to treasury,	\$9 75	
Balance to 1903,	50 00	
	<hr/>	<hr/>
	\$59 75	\$59 75

INSPECTOR OF MILK.

Balance 1901,	\$3 00
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EXPENDED.

Transferred to treasury,	\$3 00	
	<hr/>	<hr/>
	\$3 00	\$3 00

SEALER OF WEIGHTS AND MEASURES.
CONTINGENT.

Appropriation,	\$19 00
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EXPENDED.

Posting notices,	\$2 00	
Printing,	3 00	
Stamps and tools,	13 90	
	<hr/>	
Total expended,	\$18 90	
Balance to 1903,	10	
	<hr/>	<hr/>
	\$19 00	\$19 00

MAYOR'S CONTINGENT.

Appropriation,	\$50 00
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EXPENDED.

Box rent, postage and stationery,	\$42 42	
Balance to 1903,	7 58	
	<hr/>	<hr/>
	\$50 00	\$50 00

MAYOR'S CLERICAL ASSISTANT.

Appropriation,		\$100 00
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EXPENDED.

Salary, clerk,	\$100 00	
	<hr/>	<hr/>
	\$100 00	\$100 00

ASSESSORS' CONTINGENT.

Balance from 1901, Michigan stock,	\$8 00	
" " " contingent, .	17	
Appropriation,	600 00	
	<hr/>	\$608 17

EXPENDED.

Abstract of deeds,	\$112 85	
Posting notices,	1 50	
Printing and advertising,	57 91	
Printing assessed poll book,	188 90	
Record books, cash and cards,	48 00	
Use of team,	75 00	
Sundry office expenses,	71 45	
Sundries,	37 04	
Subscription,	5 00	
	<hr/>	
Total expended,	\$597 65	
Transferred to treasury,	8 17	
Balance to 1903,	2 35	
	<hr/>	<hr/>
	\$608 17	\$608 17

FIRE DEPARTMENT.

Permanent Drivers.

Appropriation,		\$3,120 00
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EXPENDED.

Pay rolls,	\$3,120 00	
	<hr/>	<hr/>
	\$3,120 00	\$3,120 00

Electrician and Driver.

Appropriation,		\$876 00
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EXPENDED.

Pay rolls,	\$876 00	
	<hr/>	<hr/>
	\$876 00	\$876 00

Engineer of Steamer.

Transferred from call men, . . .		\$75 00
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EXPENDED.

Pay roll,	\$75 00	
	<hr/>	<hr/>
	\$75 00	\$75 00

Call Men.

Balance from 1900,	\$120 81	
Appropriation,	3,050 00	
Transferred from sundry accounts, .	574 21	
	<hr/>	\$3,745 02

EXPENDED.

Pay roll,	\$2,287 44	
Transferred to engineer of steamer,	75 00	
Transferred to treasury,	120 81	
" " sundry accounts, .	\$1,261 77	
	<hr/>	<hr/>
	\$3,745 02	\$3,745 02

Chief Engineer.

Appropriation,		\$150 00
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EXPENDED.

Salary,	\$150 00	
	<hr/>	<hr/>
	\$150 00	\$150 00

Assistant Engineer and Clerk.

Appropriation,		\$125 00
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EXPENDED.

Salaries,	\$124 99	
Transferred to contingent,	01	
	<hr/>	<hr/>
	\$125 00	\$125 00

Assistant Engineer.

Appropriation,		\$100 00
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EXPENDED.

Salary,	\$99 99	
Transferred to contingent,	01	
	<hr/>	<hr/>
	\$100 00	\$100 00

House Steward.

Appropriation,		\$40 00
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EXPENDED.

Pay roll,	\$20 00	
Transferred to call men,	20 00	
	<hr/>	<hr/>
	\$40 00	\$40 00

Hay, Straw and Grain.

Balance, 1901,	\$83 59	
Appropriation,	600 00	
Transfers from call men,	500 00	
	<hr/>	\$1,183 59

EXPENDED.

Bills paid,	\$1,049 43	
Transferred to call men,	50 00	
" " contingent,	57	
" " treasury,	83 59	
	<hr/>	<hr/>
	\$1,183 59	\$1,183 59

Coal and Wood.

Balance from 1901,	\$71 50	
Appropriation,	325 00	
Transferred from call men,	100 00	
" " contingent,	9 71	
	<hr/>	\$506 21

EXPENDED.

Bills paid,	\$434 71	
Transferred to treasury,	71 50	
	<hr/>	\$506 21
		<hr/>
		\$506 21

Horse Shoeing.

Balance from 1901,	\$5 37	
Appropriation,	150 00	
Transferred from call men,	30 00	
	<hr/>	\$185 37

EXPENDED.

Bills paid,	\$161 29	
Transferred to call men,	10 00	
" " contingent,	8 71	
" " treasury,	5 37	
	<hr/>	\$185 37
		<hr/>
		\$185 37

Expressing.

Balance from 1901,	\$26 26	
Appropriation,	25 00	
Transferred from call men,	20 00	
	<hr/>	\$71 26

EXPENDED.

Bills paid,	\$25 60	
Transferred to call men,	10 00	
" " contingent,	9 40	
" " treasury,	26 26	
	<hr/>	\$71 26
		<hr/>
		\$71 26

Laundry and New Linen.

Balance from 1901,	\$ 9 04	
Appropriation,	75 00	
	<hr/>	\$84 04

EXPENDED.

Bills paid,	\$55 91	
Transferred to contingent,	19 09	
" " treasury,	9 04	
	<hr/>	<hr/>
	\$84 04	\$84 04

Fire Alarm.

Balance from 1901,	\$ 10 25	
Appropriation,	950 00	
Transferred from call men,	150 00	
	<hr/>	\$1,110 25

EXPENDED.

Supplies and install. storage battery,	\$845 65	
Sundries,	97 30	
	<hr/>	
	\$942 95	
Transferred to call men,	150 00	
" " contingent,	7 05	
" " treasury,	10 25	
	<hr/>	<hr/>
	\$1,110 25	\$1,110 25

New Hose.

Balance from 1901,	\$ 16 50	
Appropriation,	490 00	
	<hr/>	\$506 50

EXPENDED.

Bills paid,	\$490 00	
Transferred to treasury,	16 50	
	<hr/>	<hr/>
	\$506 50	\$506 50

Electric Lights, Gas and Telephones.

Balance from 1901,	\$101 88	
Appropriation,	175 00	
Transferred from treasury,	1 20	
" " call men,	50 00	
" " contingent,	84	
	<hr/>	\$328 92

EXPENDED.

Electric lights,	\$ 32 25	
Gas,	104 88	
Telephones,	89 91	
	<hr/>	
	\$227 04	
Transferred to treasury,	101 88	
	<hr/>	
	\$328 92	\$328 92

Contingent.

Balance from 1901,	\$ 41 35	
Appropriation,	484 00	
Transfers from sundry accounts,	477 06	
	<hr/>	\$1,002 41

EXPENDED.

Horse hire,	\$100 00	
Repairs,	356 10	
Sundries,	134 72	
Supplies,	116 63	
Pay roll, brush fires,	51 80	
	<hr/>	
	\$759 25	
Transferred to treasury,	41 35	
Transferred to call men,	175 00	
Transferred to sundry accounts,	10 55	
Balance to 1902,	16 26	
	<hr/>	
	\$1,002 41	\$1,002 41

Horse for Hose No. 3.

Bill paid,	\$250 00
Treasurer authorized to borrow \$250.00.	

Driver for Hose No. 4.

Appropriation,		\$350 00
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EXPENDED.

Pay roll,	\$300 00	
Transferred to repairs Hose No. 4,	50 00	
	<hr/>	
	\$350 00	\$350 00

Repairs to Hose House No. 4 and care of Horse.

Appropriation,	\$250 00	
Transferred from driver Hose No. 4.,	50 00	
	<hr/>	
		\$300 00

EXPENDED.

Hay and grain,	\$ 8 43	
Repairs,	286 86	
	<hr/>	
	\$295 29	
Transferred to call men,	4 71	
	<hr/>	
	\$300 00	\$300 00

New Horses.

Appropriation,		\$1,500 00
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EXPENDED.

Bills paid,	\$1,350 00	
Transferred to call men,	150 00	
	<hr/>	
	\$1,500 00	\$1,500 00

Rubber Suits.

Appropriation,		\$120 00
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EXPENDED.

Bills paid,	\$115 50	
Transferred to call men,	4 50	
	<hr/>	
	\$120 00	\$120 00

Horse Hire.

Balance from 1901,		\$22 00
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EXPENDED.

Transferred to treasury,	\$22 00	
	<hr/>	
	\$22 00	\$22 00

HEALTH DEPARTMENT.

Collecting Ashes.

Proceeds of loan,	\$700 00	
Overdraft, 1901,	381 50	
	<hr/>	\$318 50

EXPENDED.

Bills paid, contract,	\$318 50	
	<hr/>	
	\$318 50	\$318 50
Trans. to Public Works dept. in June.		

Collecting Garbage.

Appropriation,	\$1,200 00
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EXPENDED.

Bills paid, contract,	\$1,180 00	
Balance to 1903,	20 00	
	<hr/>	
	\$1,200 00	\$1,200 00

Disinfection.

Appropriation,	\$200 00	
Proceeds of loan,	29 00	
	<hr/>	\$229 00

EXPENDED.

Bills paid,	\$200 00	
Overdraft, 1901,	29 00	
	<hr/>	
	\$229 00	\$229 00

Salary Inspector of Plumbing.

Appropriation,	\$650 00
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EXPENDED.

Barker, John T.,	\$650 00	
	<hr/>	
	\$650 00	\$650 00

Contingent and Clerical Assistance.

Appropriation,	\$1,063 72	
Proceeds of loan,	339 95	
Cash receipts,	104 45	
	<hr/>	\$1,508 12

EXPENDED.

Advertising and Printing,	\$122 01	
Agent's services,	189 50	
Books and supplies,	265 05	
Clerical assistance,	132 00	
Fuel,	15 35	
Food,	6 24	
Nurse services,	12 00	
Removal of dead animals,	25 00	
Sundries,	87 79	
Vaccination expenses,	307 24	
	<hr/>	
	\$1,162 18	
Overdraft, 1901,	339 95	
Balance to 1903,	5 99	
	<hr/>	
	\$1,508 12	\$1,508 12

Contagious Diseases.

Appropriation,	\$2,500 00	
Proceeds of loans,	4,513 33	
	<hr/>	\$7,013 33

EXPENDED.

Aid furnished hospital at Lynn,	\$20 00
Fire extinguisher at pest house,	15 75
Food,	613 77
Fuel,	44 96
Fumigating and supplies,	266 82
Furniture and bedding,	67 85
Hack hire,	252 00

Hardware,	\$55 76	
Incubator and supplies,	33 75	
Index cases and cards,	30 38	
Isolation hospital building and repairs,	749 99	
Medical attendance,	761 00	
" " expert,	175 00	
Medicines, etc.,	752 72	
Nurses' services and quarantine,	1,443 13	
Printing,	14 00	
Rents,	47 00	
Repairs to home, Lynde street,	63 00	
" " " Orris " 	35 48	
Sheets, blankets, etc.,	313 39	
Special officers,	637 90	
Sundries,	95 42	
Thermo. cautery,	15 25	
Undertakers' services,	300 00	
Caskets,	101 00	
Graves and interments,	23 00	
Water pipes, isolation hospital,	84 36	
	<hr/>	
	\$7,012 68	
Balance to 1903,	65	
	<hr/>	
	\$7,013 33	\$7,013 33

Isolation Hospital.

Transferred from treasury, \$600 00

EXPENDED.

Labor on water pipe,	\$ 52 75	
Moving building, building cellar, etc.,	319 25	
Oils and paint,	20 93	
Stock and labor,	195 48	
Windows,	3 90	
	<hr/>	
	\$592 31	
Balance to 1903,	7 69	
	<hr/>	
	\$600 00	\$600 00

Vaccination.

EXPENDED.

Advertising and printing,	\$18 75
Medicines, points, etc.	58 90
Nurses' services,	118 00
Posting notices,	3 50

\$199 15

Treasurer authorized to borrow \$200.00.

Compulsory Vaccination.

Proceeds of loan, \$1,000 00

EXPENDED.

Distributing notices,	\$15 00
Dry goods,	1 67
Medical services,	582 75
Nurses' "	95 00
Points, etc.,	261 62
Printing,	40 75

\$997 79

Balance to 1903, 2 21

\$1,000 00 \$1,000 00

INSURANCE.

Balance from 1901,	\$ 28 49
Appropriation,	2,157 75

\$2,186 24

EXPENDED.

Total expended,	\$2,132 52
Balance to 1903,	53 72

\$2,186 24 \$2,186 24

INTEREST.

Balance from 1901,	\$5,449 36	
Appropriation,	24,500 00	
	<hr/>	\$29,949 36

RECEIPTS.

Deposits, Melrose National Bank, .	\$ 474 67	
Sewer assessments,	2,229 12	
Tax titles,	391 18	
Taxes of 1898,	77	
“ “ 1899,	15 32	
“ “ 1900,	542 21	
“ “ 1901,	3,662 97	
“ “ 1902,	202 22	
	<hr/>	7,518 46
		<hr/>
		\$37,467 82

EXPENDED.

Sundry notes,	\$4,519 88	
Discounts “	2,847 44	
Trust funds,	386 01	
Coupons, fire station,	400 00	
“ school house loan,	8,200 00	
“ sewer “	14,200 00	
“ park “	500 00	
“ Town hall, “	1,780 00	
	<hr/>	\$32,833 33
Balance to 1903,	4,634 49	
	<hr/>	\$37,467 83
		<hr/>
		\$37,467 83

MELROSE HOSPITAL.

Appropriation,	\$1,000 00
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EXPENDED.

Total expended,	\$1,000 00	
	<hr/>	
	\$1,000 00	\$1,000 00

MEMORIAL DAY.

Appropriation,	\$200 00
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EXPENDED.

Total expended,	\$200 00	
	<hr/>	<hr/>
	\$200 00	\$200 00

MILITARY AID.

Appropriation,	\$139 94	
Transfer from Comm. of Mass.,	237 73	
	<hr/>	\$377 67

EXPENDED.

Pay rolls,	\$453 46	
Overdraft 1901,	168 94	
Overdraft 1902,		244 73
	<hr/>	<hr/>
	\$622 40	\$622 40

POLICE DEPARTMENT.

Salary of Chief.

Appropriation	\$1,000 00
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EXPENDED.

Pay roll,	\$1,000 00	
	<hr/>	<hr/>
	\$1,000 00	\$1,000 00

Salaries of Regular Officers.

Appropriation,	\$10,037 50
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EXPENDED.

Pay rolls,	\$10,037 50	
	<hr/>	<hr/>
	\$10,037 50	\$10,037 50

Salaries of Special Officers.

Appropriation,		\$735 00
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EXPENDED.

Pay rolls,	\$695 02	
Balance to 1903,	39 98	
	<hr/>	<hr/>
	\$735 00	\$735 00

Contingent.

Balance from 1901,	\$ 1 36	
Appropriation,	575 00	
Transfer from treasury,	255 22	
	<hr/>	<hr/>
		\$831 58

EXPENDED.

Advertising and printing,	\$ 64 50	
Board and care of horse,	327 50	
Care of lockup and meals,	88 50	
Cash expenses,	42 82	
Office supplies, desks, etc.,	71 10	
Repairs,	54 58	
" officers' room,	60 91	
Sundries,	55 40	
Telephone service,	61 34	
	<hr/>	
	\$826 65	
Transferred to treasury,	1 36	
Balance to 1903,	3 57	
	<hr/>	<hr/>
	\$831 58	\$831 58

PUBLIC LIBRARY.

Rent and Heating.

Balance from 1901,	\$ 25 00	
Appropriation,	1,200 00	
	<hr/>	<hr/>
		\$1,225 00

EXPENDED.

Rent,	\$1,200 00	
Transferred to treasury,	25 00	
	<hr/>	<hr/>
	\$1,225 00	\$1,225 00

SALARIES.

Appropriation,		\$1,100 00
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EXPENDED.

Pay rolls,	\$1,077 84	
Transferred to books and supplies, .	22 16	
	<hr/>	<hr/>
	\$1,100 00	\$1,100 00

Books and Supplies.

Balance from 1901,	\$ 59 36	
Appropriation,	200 00	
Transferred from treasury,	36 00	
" " salaries,	22 16	
Received from county treasurer, dog tax, 1901,	1,035 31	
Received from county treasurer, dog tax, 1902,	1,133 95	
Received from damage to books, . .	4 00	
	<hr/>	\$2,490 78

EXPENDED.

Book and supplies,	\$1,297 38	
Transferred to treasury,	59 36	
Balance to 1903,	1,134 04	
	<hr/>	<hr/>
	\$2,490 78	\$2,490 78

PUBLIC LIBRARY BUILDING.

Received from Andrew Carnegie, . .		\$1,000 00
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EXPENDED.

Advertising,	\$ 16 25	
Architect plans, etc.,	675 00	
Sundries,	4 28	
	<hr/>	
	\$695 53	
Balance to 1903,	304 47	
	<hr/>	<hr/>
	\$1,000 00	\$1,000 00

SALARIES.

Balance from 1901,	\$ 115 02	
Appropriation,	11,250 00	
	<hr/>	\$11,365 02

EXPENDED.

Auditor,	\$ 500 00	
City clerk,	1,200 00	
Assistant city clerk,	750 00	
Collector,	1,000 00	
Treasurer,	750 00	
Assessors,	900 00	
" assistants,	150 00	
" clerk,	850 00	
Engineer and supt. of public works,	2,250 00	
Board of health,	300 00	
Overseers of poor,	375 00	
Mayor,	500 00	
Inspector of buildings,	500 00	
" " milk and vinegar,	100 00	
" " animals and provisions,	100 00	
City solicitor,	500 00	
Registrars of voters,	200 00	
Sealer of weights and measures,	200 00	
Agent military and state aid,	91 67	
	<hr/>	\$11,216 67
Transferred to treasury,	115 02	
Balance to 1903,	33 33	
	<hr/>	\$11,365 02
		<hr/>
		\$11,365 02

SCHOOL DEPARTMENT.

Teaching and Supervision.

Balance from 1901,	\$ 164 65	
Appropriation,	56,000 00	
Proceeds of loans,	400 00	
	<hr/>	\$56,564 65

EXPENDED.

Pay rolls,	\$56,264 01	
Transferred to repairs,	100 00	
" " treasury,	164 65	
Balance to 1903,	35 99	
	<hr/>	
	\$56,564 65	\$56,564 65

Janitors.

Appropriation,		\$6,004 00
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EXPENDED.

Pay rolls,	\$6,004 00	
	<hr/>	
	\$6,004 00	\$6,004 00

Books and Supplies.

Balance from 1901,	\$ 74	
Appropriation,	4,000 00	
Proceeds of loan,	1,200 00	
	<hr/>	
		\$5,200 74

EXPENDED.

Sundry bills,	\$5,199 95	
Transferred to treasury,	74	
Balance to 1903,	05	
	<hr/>	
	\$5,200 74	\$5,200 74

Furniture.

Balance from 1901,	\$ 29	
Appropriation,	500 00	
Proceeds of loan,	100 00	
	<hr/>	
		\$600 29

EXPENDED.

Sundry bills,	\$600 00	
Transferred to treasury,	29	
	<hr/>	
	\$600 29	\$600 29

Fuel.

Appropriation,	\$7,000 00	
Proceed of loan,	1,449 89	
	<hr/>	\$8,449 89

EXPENDED.

Sundry bills,	\$6,538 62	
Transfer'd to contingent and repairs,	450 00	
Overdraft, 1901,	1,449 89	
Balance to 1903,	11 38	
	<hr/>	<hr/>
	\$8,449 89	\$8,449 89

Printing.

Balance from 1901,	\$ 05	
Appropriation,	250 00	
Transferred from treasury,	1 75	
	<hr/>	\$251 80

EXPENDED.

Sundry bills,	\$251 75	
Transferred to treasury,	05	
	<hr/>	<hr/>
	\$251 80	\$251 80

Transportation of Pupils.

Appropriation,	\$535 00
--------------------------	----------

EXPENDED.

Sundry bills,	\$509 00	
Transferred to contingent,	26 00	
	<hr/>	<hr/>
	\$535 00	\$535 00

Repairs.

Appropriation,	\$2,400 00	
Transferred from treasury,	331 70	
“ “ salaries and fuel,	500 00	
Proceeds from loans,	1,600 00	
	<hr/>	\$4,831 70

EXPENDED.

Sundry bills,	\$3,831 42	
Overdraft, 1901,	1,000 00	
Balance to 1903,	28	
	<hr/>	
	\$4,831 70	\$4,831 70

High School and Teachers' Library.

Balance from 1901,	\$ 24	
Appropriation	100 00	
	<hr/>	
		\$100 24

EXPENDED.

Sundry bills,	\$99 85	
Transferred to treasury,	24	
Balance to 1903,	15	
	<hr/>	
	\$100 24	\$100 24

Washington School Sidewalk.

Appropriation,	\$300 00
--------------------------	----------

EXPENDED.

Sundry bills,	\$300 00	
	<hr/>	
	\$300 00	\$300 00

Contingent.

RECEIPTS.

From tuition,	\$893 50	
" fines,	94 35	
Transferred from treasury,	24 88	
" " fuel and transportation,	76 00	
	<hr/>	
		\$1,088 73

EXPENDED.

Sundry bills,	\$1,581 45	
Overdraft, 1901,	46 51	
" 1902,		539 23
	<hr/>	
	\$1,627 96	\$1,627 96

Soldiers' Burial.

Transferred from Commonwealth of Massachusetts,	\$105 00
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EXPENDED.

Undertakers' services,	\$105 00	
	<hr/>	
	\$105 00	\$105 00

SOLDIERS' RELIEF.

Appropriation,	\$3,200 74	
Received from city of Malden,	29 73	
" " town of Stoneham,	24 00	
" " " " Wenham,	141 88	
Transferred from Commonwealth of Mass.,	<hr/> 154 00	\$3,550 35

EXPENDED.

Aid furnished,	\$211 00	
Allowance pay rolls,	388 00	
Dry goods,	3 00	
Food,	373 69	
Fuel,	183 76	
Medical attendance and medicines,	68 30	
Rents,	584 80	
Shoes,	37 25	
Sundries,	<hr/> 4 25	
	\$1,854 05	
Overdraft 1901,	1,332 78	
Balance to 1903,	<hr/> 363 52	
	\$3,550 35	\$3,550 35

STATE AID.

Cash returned to treasury not called for,	\$4 00	
Transferred from Commonwealth of Mass.,	<hr/> 2,527 50	\$2,531 50

EXPENDED.

Pay rolls,	\$2,537 00	
Overdraft to 1903,		5 50
	<hr/>	<hr/>
	\$2,537 00	\$2,537 00

SURETY BONDS.

Appropriation,	\$193 00
--------------------------	----------

EXPENDED.

Premiums on bonds,	\$170 00	
Balance to 1903,	23 00	
	<hr/>	<hr/>
	\$193 00	\$193 00

COUNTY TAXES.

Amount assessed,	\$13,355 88
----------------------------	-------------

EXPENDED.

Paid county treasurer,	\$13,355 88
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STATE TAX.

Amount assessed,	\$6,375 00
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EXPENDED.

Paid state treasurer,	\$6,375 00
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METROPOLITAN PARK TAX

Balances from 1900-1901,	\$12,461 55	
Amount assessed,	1,977 83	
	<hr/>	<hr/>
		\$14,439 38

EXPENDED.

Paid state treasurer.	\$14,439 38
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STATE SEWERAGE TAX.

Amount assessed,	\$10,561 13
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EXPENDED.

Paid state treasurer,	\$10,561 13
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OVERLAYS, ADDITIONALS, AND ABATEMENTS.

Taxes of 1895-96-97-98-99.

Balances Jan. 31, 1902,		\$6,448 72
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Taxes of 1898.

Additional,	\$8 00	
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Abated in 1902,	8 67	
-----------------	------	--

Overdraft,	\$ 67	
------------	-------	--

Taxes of 1899.

Abated in 1902,	\$602 74	\$603 41
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Balance,		\$5,845 31
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Taxes of 1900.

Balance Jan. 31, 1902,	\$789 22	
------------------------	----------	--

Additional,	438 30	
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	\$1,227 52	
Abated in 1902,	684 22	
		543 30

Taxes of 1901.

Balance Jan. 31, 1902,	\$1,720 06	
------------------------	------------	--

Additional,	487 20	
-------------	--------	--

	\$2,207 26	
Abated in 1902,	1,569 91	
		637 35
		\$7,025 96

Taxes of 1902.

Overlay,	\$2,861 15	
----------	------------	--

Additional,	959 87	
-------------	--------	--

	\$3,821 02	
Abated in 1902,	5,219 70	
Less overdraft,		1,398 68

Balances to 1903,		\$5,627 28
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DEFICIENCIES REFUNDED BY BANK AND
CORPORATION TAXES.

Commonwealth of Mass., bank and corporation tax,	\$14,480 94	
Less overdraft, 1901,	1,401 23	
	<hr/>	\$13,079 71

EXPENDED.

National Bank tax,	\$ 837 23	
Transferred to sundry accounts,	28,758 42	
Balance to 1903,		16,515 94
	<hr/>	<hr/>
	\$29,595 65	\$29,595 65

SCHOOL HOUSE LOAN SINKING FUND.

Appropriation,	\$7,222 00
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TOWN HALL LOAN SINKING FUND.

Appropriation,	\$1,537 65
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FOURTH OF JULY CELEBRATION.

EXPENDED.

Band,	\$160 00	
Cash expenses,	10 50	
Hardware,	6 50	
Labor,	62 46	
Lumber,	97 51	
Painting,	1 71	
Rent of ball park,	160 00	
Teaming,	1 32	
	<hr/>	\$500 00

Treasurer authorized to borrow \$500.00.

HISTORY OF MELROSE.

Appropriation,	\$1,500 00
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EXPENDED.

Printing,	\$945 23	
Balance to 1903,	554 77	
	<hr/>	<hr/>
	\$1,500 00	\$1,500 00

SOLDIERS' MONUMENT.

Proceeds of loan,	\$750 00	
Rec'd from U. S. Grant Post 4, G. A. R.,	70 53	
Transferred from general contingent,	29 25	
	<hr/>	\$849 78

EXPENDED.

Advertising,	\$ 2 50	
Blacksmithing,	12 50	
Blue prints,	10 14	
Castings,	6 20	
Cement and labor,	55 59	
Grading lot,	123 75	
Making patterns,	9 90	
Monument contract,	578 50	
Plans and services,	40 00	
Teaming,	2 15	
	<hr/>	
	\$841 23	
Balance to 1903,	8 55	
	<hr/>	
	\$849 78	\$849 78

SEWER ASSESSMENTS.

Collected,	\$13,567 41
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EXPENDED.

Transferred to sewer construction, .	\$8,684 48	
" " interest,	2,229 12	
	<hr/>	
	\$10,913 60	
Balance to 1903,	2,653 81	
	<hr/>	
	\$13,567 41	\$13,567 41

CEMETERY TRUST FUNDS.

Balance, 1901,	\$7,427 50
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RECEIPTS.

Claussen, A. C.,	\$170 00
Fenn, G. E.,	50 00
Kendall, M. K.,	150 00

Mansfield, estate Mrs. E. A.,	\$250 00	
Orcutt, F. E.,	100 00	
Pettengill, H. J.,	206 50	
Shapleigh, Mrs. E. R.,	50 00	
Shelton, estate Mrs. A. K.,	180 00	
Simonds, Mrs. O. E.,	150 00	
Skinner, Mrs. C. C., Ad.,	100 00	
Taylor, Mrs. A. S.,	150 00	
	<hr/>	\$1,556 50
		<hr/>
		\$8,984 00

E. TOOTHAKER TRUST FUND

Balance 1901,	\$1,419 92	
Interest on trust,	53 40	
	<hr/>	
		\$1,473 32

EXPENDED.

Food,	\$38 33	
Fuel,	19 94	
Medical attendance and medicine,	17 70	
Rents,	62 00	
Shoes,	8 25	
	<hr/>	
	\$146 22	
Balance to 1903,	1,327 10	
	<hr/>	
	\$1,473 32	\$1,473 32

TAXES.

1898.

Balance uncollected Jan. 31, 1902,	\$9 83	
Interest,	77	
	<hr/>	
	\$10 60	
Additional,	8 00	
Cash overpaid,	84	
	<hr/>	
	\$19 44	
Abated,	8 67	
	<hr/>	
	\$10 77	
Collected and paid treasurer,	10 77	

1899.

Balance uncollected Jan. 31, 1902, .	\$772 14	
Interest,	15 32	
	<hr/>	
	\$787 46	
Abated,	602 74	
	<hr/>	
	\$184 72	
Collected and paid treasurer, . .	140 75	
	<hr/>	
Balance uncollected Jan. 31, 1903, .	\$43 97	\$43 97

1900.

Balance uncollected Jan. 31, 1902, .	\$8,669 22	
Additional,	438 30	
Interest,	542 21	
	<hr/>	
	\$9,649 73	
Abated,	684 22	
	<hr/>	
	\$8,965 51	
Collected and paid treasurer, . .	7,006 91	
	<hr/>	
Balance uncollected Jan. 31, 1903, .	\$1,958 60	\$1,958 60

1901.

Balance uncollected Jan. 31, 1902, .	\$105,786 56	
Additional,	487 20	
Interest,	3,662 97	
	<hr/>	
	\$109,936 73	
Abated,	1,569 91	
	<hr/>	
	\$108,366 82	
Collected and paid treasurer, . .	97,127 15	
	<hr/>	
Balance uncollected Jan. 31, 1903, .	\$11,239 67	\$11,239 67

1902.

Warrant,	\$272,148	26	
Additional,	959	87	
Interest,	202	22	
	<hr/>		
	\$273,310	35	
Abated,	5,219	70	
	<hr/>		
	\$268,090	65	
Collected and paid treasurer,	153,944	51	
	<hr/>		
Balance uncollected Jan. 31, 1903,	\$114,146	14	\$114,146 14
Total uncollected,			<hr/>
			\$127,388 38

Refunded Taxes.

Transferred from treasury,	\$93	86
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EXPENDED.

Cash refunded illegal assessment,	\$93	86	
	<hr/>		
	\$93	86	<hr/>
			\$93 86

Tax Title Takings.

Balance unredeemed Jan. 31, 1902,	\$7,359	19
Paid collector,	4,703	32
“ registrar of deeds, recording,	228	00
	<hr/>	
	\$12,290	51
Cash received, titles redeemed,	3,799	26
	<hr/>	
Total amount unredeemed Jan. 31,		
1903,	\$8,491	25

PRINTING TOWN REPORT.

Appropriation,	\$212	00
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EXPENDED.

Overdraft of 1901,	\$212	00	
	<hr/>		
	\$212	00	<hr/>
			\$212 00

LOANS, MUNICIPAL AND PERMANENT.

Balance, Jan. 31, 1902,	\$85,000 00	
Cash received for notes,	10,000 00	
	<u> </u>	\$95,000 00

EXPENDED.

Paid sundry notes,	\$34,000 00	
Balance to 1903, see treasurer's report for details,	61,000 00	
	<u> </u>	<u> </u>
	\$95,000 00	\$95,000 00

LOANS TEMPORARY.

Balance June 31, 1902,	\$103,121 65	
Cash received for notes,	198,203 33	
	<u> </u>	\$301,324 98

EXPENDED.

Paid sundry notes,	\$153,621 65	
Balance to 1903, see treasurer's re- port for details,	147,703 33	
	<u> </u>	<u> </u>
	\$301,324 98	\$301,324 98

PUBLIC WORKS DEPARTMENT.

Parks.

Balance, 1901,	\$87 84	
Appropriation,	150 00	
	<u> </u>	\$237 84

EXPENDED.

See Supt. of Public Works report for details,	\$86 47	
Transferred to treasury,	87 84	
Balance to 1903,	63 53	
	<u> </u>	<u> </u>
	\$237 84	\$237 84

ENGINEERING DEPARTMENT.

Salaries.

Balance, 1901,	\$9 50	
Appropriation,	1,700 00	
Transfer from water fund,	1,300 00	
	<hr/>	\$3,009 50

EXPENDED.

See Supt. of Public Works report for details,	\$2,620 07	
Transferred to treasury,	9 50	
" " contingent,	379 93	
	<hr/>	<hr/>
	\$3,009 50	\$3,009 50

Contingent.

Balance, 1901,	\$58 73	
Appropriation,	50 00	
Transferred from salaries,	379 93	
	<hr/>	\$488 66

EXPENDED.

See Supt. of Public Works report for details,	\$390 23	
Transferred to treasury,	58 73	
Balance to 1903,	39 70	
	<hr/>	<hr/>
	\$488 66	\$488 66

PUBLIC WORKS OFFICE.

Board of Horse.

Appropriation,	\$300 00
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EXPENDED.

See Supt. of Public Works report for details,	\$300 00	
	<hr/>	<hr/>
	\$300 00	\$300 00

Clerk and Stenographer.

Balance, 1901,	\$9 50	
Appropriation,	500 00	
	<hr/>	\$509 50

EXPENDED.

See Supt. of Public Works report for details,	\$499 50	
Transferred to treasury,	9 50	
Balance to 1903,	50	
	<hr/>	<hr/>
	\$509 50	\$509 50

Telephone Services.

Balance, 1901,	\$8 33	
Appropriation,	75 00	
	<hr/>	\$83 33

EXPENDED.

See Supt. of Public Works report for details,	\$52 07	
Transferred to treasury,	8 33	
Balance to 1903,	22 93	
	<hr/>	<hr/>
	\$83 33	\$83 33

Contingent.

Balance, 1901,	42	
Appropriation,	200 00	
Transferred from treasury,	11 90	
	<hr/>	\$212 32

EXPENDED.

See Supt. of Public Works report for details,	\$211 58	
Transferred to treasury,	42	
Balance to 1903,	32	
	<hr/>	<hr/>
	\$212 32	\$212 32

CITY HALL.

Janitor.

Balance, 1901,	\$24 72	
Appropriation,	750 00	
	<hr/>	\$774 72

EXPENDED.

See Supt. of Public Works report for details,	\$723 50	
Transferred to treasury,	24 72	
Balance to 1903,	26 50	
	<hr/>	<hr/>
	\$774 72	\$774 72

Heating.

Balance, 1901,	50	
Appropriation,	\$275 00	
	<hr/>	\$275 50

EXPENDED.

See Supt. of Public Works report for details,	\$275 00	
Transferred to treasury,	50	
	<hr/>	<hr/>
	\$275 50	\$275 50

Lighting.

Balance, 1901,	\$22 77	
Appropriation,	1,000 00	
Transferred from treasury,	97 78	
	<hr/>	\$1,120 55

EXPENDED.

See Supt. of Public Works report for details,	\$852 78	
Transferred to treasury,	22 77	
Balance to 1903,	245 00	
	<hr/>	<hr/>
	\$1,120 55	\$1,120 55

Contingent.

Balance 1901,	\$	c8	
Appropriation,		300	00
Transferred from treasury,		47	67
		<hr/>	\$347 75

EXPENDED.

See Supt. of P. W. R. for details,	\$344	59	
Transferred to treasury,		08	
Balance to 1903,		3	08
		<hr/>	
	\$347	75	\$347 75

HIGHWAY DIVISION.

Bridges and Culverts.

Appropriations,	\$2,500 00
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EXPENDED.

See Supt. of P. W. R. for details,	\$2,413	98	
Balance to 1903,		86	02
		<hr/>	
	\$2,500	00	\$2,500 00

Collecting Ashes.

Appropriation,	\$1,700 00
--------------------------	------------

EXPENDED.

See Supt. of P. W. R. for details,	\$823	00	
Balance to 1903,		877	00
		<hr/>	
	\$1,700	00	\$1,700 00

Catch Basins and Drains.

Appropriation,	\$1,000 00
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EXPENDED.

See Supt. of P. W. R. for details,	\$1,000	00	
		<hr/>	
	\$1,000	00	\$1,000 00

Granite Crossings.

Appropriation,		\$500 00
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EXPENDED.

See Supt. of P. W. R. for details, .	\$499 23	
Balance to 1903,	77	
	<hr/>	<hr/>
	\$500 00	\$500 00

Paving Gutters.

Appropriation,		\$2,000 00
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EXPENDED.

See Supt. of P. W. R. for details, .	\$2,000 00	
	<hr/>	<hr/>
	\$2,000 00	\$2,000 00

Removing Snow and Sanding Walks.

Appropriation,	\$1,500 00	
Transferred from treasury, . . .	23 25	
	<hr/>	\$1,523 25

EXPENDED.

See Supt. of P. W. R. for details, .	\$1,523 25	
	<hr/>	<hr/>
	\$1,523 25	\$1,523 25

Stone Bounds.

Balance 1901,	\$114 24	
Cash received,	4 35	
	<hr/>	\$118 59

EXPENDED.

See Supt. of P. W. R. for details, .	\$53 80	
Balance to 1903,	64 79	
	<hr/>	<hr/>
	\$118 59	\$118 59

General Repairs and Maintenance.

Balance 1901,	\$2 55	
Appropriation,	14,500 00	
Cash, excise tax, street railways, .	1,689 06	
“ proceeds of loan,	5,000 00	
“ W. D. Hunter,	362 29	
“ sundry bills from sundry divisions,	1,222 25	
Transferred from treasury, . . .	142 17	
	<hr/>	\$22,918 32

EXPENDED.

See Supt. of P. W. R. for detail, .	\$22,552	78	
Transferred to treasury,	2	55	
Balance to 1903,	362	99	
	<hr/>	<hr/>	
	\$22,918	32	\$22,918 32

SEWER DIVISION.

Construction.

Balance 1901,	\$2,991	61	
Cash, W. D. Hunter,	23	00	
“ sundry bills, sundry divisions, .	2,285	29	
Transferred from sewer assessments collection,	8,684	48	
	<hr/>	<hr/>	
			\$13,984 38

EXPENDED.

See Supt. of P. W. R. for details, .	\$10,037	36	
Balance to 1903,	3,947	02	
	<hr/>	<hr/>	
	\$13,984	38	\$13,984 38

Maintenance.

Balance to 1901,	\$338	01	
Appropriation,	500	00	
	<hr/>	<hr/>	
			\$838 01

EXPENDED.

See Supt. of P. W. R. for details, .	\$720	56	
Balance to 1903,	117	45	
	<hr/>	<hr/>	
	\$838	01	\$838 01

Private Sewers.

Balance to 1901,	\$80	66	
Cash received,	2,034	33	
	<hr/>	<hr/>	
			\$2,114 99

EXPENDED.

See Supt. of P. W. R. for details,	\$2,102 68	
Balance to 1903,	12 31	
	<hr/>	<hr/>
	\$2,114 99	\$2,114 99

Contingent.

Balance to 1901,		\$3 15
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EXPENDED.

Transferred to treasury,	\$3 15	
	<hr/>	<hr/>
	\$3 15	\$3 15

SIDEWALK DEPARTMENT.

Repairs of Present Walks.

Appropriation,	\$1,000 00	
Proceeds of loan,	300 00	
Transferred from treasury,	500 00	
	<hr/>	<hr/>
		\$1,800 00

EXPENDED.

See Supt. of P. W. R. for details,	\$1,588 21	
Overdraft 1901,	193 34	
Balance to 1903,	18 45	
	<hr/>	<hr/>
	\$1,800 00	\$1,800 00

New Continuous Walks.

Balance to 1901,	\$74 45	
Appropriation,	800 00	
Cash receipts,	639 77	
	<hr/>	<hr/>
		\$1,514 22

EXPENDED.

See Supt. of P. W. R. for details,	\$689 59	
Balance to 1903,	824 63	
	<hr/>	<hr/>
	\$1,514 22	\$1,514 22

New Individual Walks.

Balance to 1901,	\$149 88	
Appropriation,	1,000 00	
Proceeds of loan,	500 00	
Transferred from treasury,	186 54	
Cash receipts,	1,412 59	
	<hr/>	\$3,249 01

EXPENDED.

See Supt. of P. W. R. for details,	\$2,754 02	
Balance to 1903,	494 99	
	<hr/>	<hr/>
	\$3,249 01	\$3,249 01

Edgestones Main Street.

Balance to 1901,	\$669 00
----------------------------	----------

EXPENDED.

See Supt. of P. W. R. for details,	\$663 02	
Balance to 1903,	5 98	
	<hr/>	<hr/>
	\$669 00	\$669 00

STREET LIGHTS.

Appropriation,	\$12,325 00	
Proceeds of loan,	1,025 00	
Transferred from general contingent,	125 00	
	<hr/>	\$13,475 00

EXPENDED.

See Supt. of P. W. R. for details,	\$12,275 78	
Overdraft 1901,	966 09	
Balance to 1903,	233 13	
	<hr/>	<hr/>
	\$13,475 00	\$13,475 00

STREET SPRINKLING.

Cash receipts,	\$4,008 70	
Less overdraft 1901,	1,901 36	
	<hr/>	\$2,107 34

EXPENDED.

See Supt. of P. W. R. for details, . . .	\$4,537 40	
Overdraft,		\$2,430 06
	<hr/>	<hr/>
	\$4,537 40	\$4,537 40

SURFACE DRAINAGE.

Proceeds of loan,	\$750 00	
Less overdraft 1901,	235 69	
	<hr/>	\$514 31

EXPENDED.

See Supt. of P. W. R. for details, . . .	\$126 64	
Balance to 1903,	387 67	
	<hr/>	<hr/>
	\$514 31	\$514 31

WATER DIVISION.

Water Fund.

Balance 1901,	\$7,173 31	
Cash receipts,	48,854 96	
Transferred from construction, . . .	27 78	
" " maintenance, . . .	111 36	
	<hr/>	\$56,167 41

EXPENDED.

Paid interest coupons,	\$10,020 00	
" state treasurer W. L. S. fund, .	4,398 83	
" " " interest,	7,038 98	
" " " maintenance,	2,997 12	
" sinking fund commrs. surplus		
1901,	733 37	
Transferred to engr. dept. salaries, .	1,300 00	
" " maintenance,	13,374 27	
" " relaying pipe,	5,950 14	
Balance to 1903,	10,354 70	
	<hr/>	<hr/>
	\$56,167 41	\$56,167 41

Construction.

Balance 1901,	\$27 78	
Transferred from maintenance,	8 12	
	<hr/>	\$35 90

EXPENDED.

See Supt. of P. W. R. for details,	\$929 95	
Transferred to maintenance,	8,356 33	
" " relaying pipe,	24 13	
" " water fund,	27 78	
Overdraft to 1903 to be refunded from bond issue,		9,302 29
	<hr/>	<hr/>
	\$9,338 19	\$9,338 19

Maintenance.

Balance 1901,	\$ 111 36	
Cash receipts,	1,676 50	
Transferred from construction,	8,356 33	
" " water fund,	13,374 27	
	<hr/>	\$23,518 46

EXPENDED.

See Supt. of P. W. R. for details,	\$23,398 98	
Transferred to construction,	8 12	
" " water fund,	111 36	
	<hr/>	<hr/>
	\$23,518 46	\$23,518 46

Relaying Pipe.

Transferred from construction,	\$ 24 13	
" " water fund,	5,950 14	
	<hr/>	\$5,974 27

EXPENDED.

See Supt. of P. W. R. for details,	\$5,974 27	
	<hr/>	<hr/>
	\$5,974 27	\$5,974 27

WELLS DRAIN.

Proceeds from loan,		\$1,315 00
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EXPENDED.

See Supt. of P. W. R. for details,	\$699 50	
Balance to 1903,	615 50	
	<hr/>	<hr/>
	\$1,315 00	\$1,315 00

CITY SCALES.

Appropriation,	\$300 00	
Transferred from treasury,	100 00	
	<hr/>	\$400 00

EXPENDED.

See Supt. of P. W. R. for details,	\$370 57	
Balance to 1903,	29 43	
	<hr/>	<hr/>
	\$400 00	\$400 00

DIX POND.

Appropriation,		\$100 00
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EXPENDED.

See Supt. of P. W. R. for details,	\$99 50	
Balance to 1903,	50	
	<hr/>	<hr/>
	\$100 00	\$100 00

LIFE SAVING APPARATUS.

Transferred from general contingent,		\$100 00
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EXPENDED.

See Supt. of P. W. R. for details,	\$77 27	
Balance to 1903,	22 73	
	<hr/>	<hr/>
	\$100 00	\$100 00

CITY HALL IMPROVEMENT.

Balance 1901,		\$1,544 60
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EXPENDED.

See Supt. of P. W. R. for details, .	\$1,537 50	
Balance to 1903,	7 10	
	<hr/>	<hr/>
	\$1,544 60	\$1,544 60

IMPROVEMENT OF COMMON.

Transferred from general contingent,		\$50 00
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EXPENDED.

See Supt. of P. W. R. for details, .	\$41 28	
Balance,	8 72	
	<hr/>	<hr/>
	\$50 00	\$50 00

BROWN TAIL MOTH.

Transferred from treasury, . . .		\$300 00
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EXPENDED.

See Supt. of P. W. R. for details, .	\$800 00	
Overdraft,		\$500 00
	<hr/>	<hr/>
	\$800 00	\$800 00

Treasurer authorized to borrow \$500.00.

GYPSY MOTHS.

Transferred from general contingent,	\$160 00	
Cash receipts,	39 25	
	<hr/>	\$199 25

EXPENDED.

See Supt. of P. W. R. for details, .	\$198 00	
Balance to 1903,	1 25	
	<hr/>	<hr/>
	\$199 25	\$199 25

REPAIRS TO CITY HALL BASEMENT.

Appropriation,	\$373 00
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EXPENDED.

See Supt. of P. W. R. for details, . . .	\$359 46	
Balance to 1903,	13 54	
	<hr/>	<hr/>
	\$373 00	\$373 00

ELL POND PARK.

Proceeds of loan,	\$1,536 25
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EXPENDED.

Swain, Elizabeth H., et al, judgment, \$	325 00	
Overdraft 1901,	1,211 25	
	<hr/>	<hr/>
	\$1,536 25	\$1,536 25

SCHEDULE OF CITY PROPERTY.

FIRE DEPARTMENT.

Central fire station,	\$20,000 00	
Personal property, Steamer No. 1,		
as per engineer's report,	5,019 50	
Personal property, Hook and Lad-		
der Co.,	2,844 25	
Personal property, Hose No. 2, . . .	1,199 25	
	<hr/>	\$29,063 00

Hose No. 3.

Building,	\$1,200 00	
10,267 square feet land,	3,075 00	
Personal property,	1,755 70	
	<hr/>	\$6,030 70

Hose No. 4.

Building,	\$1,800 00	
5,624 square feet land,	550 00	
Personal property,	1,637 75	
	<hr/>	\$3,987 75
Fire alarm system,		\$16,000 00
		<hr/>
		\$55,081 45

CHARITY DEPARTMENT.

Personal property, schedule on file,	\$1,429 31
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POLICE DEPARTMENT.

Personal property, schedule on file,	\$905 30
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PUBLIC LIBRARY.

Personal property, schedule on file,	\$14,500 00
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SCHOOL DEPARTMENT.

Converse school building,	\$5,000 00	
21,017 square feet land,	1,050 00	
Personal property,	179 00	
	<hr/>	\$6,229 00
Franklin school building,	\$30,000 00	
21,752 square feet land,	6,575 00	
Personal property,	4,129 00	
	<hr/>	40,704 00
Gooch school building,	\$25,000 00	
27,815 square feet land,	4,450 00	
Personal property,	2,598 00	
	<hr/>	32,048 00
High school building,	\$100,000 00	
116,385 square feet land,	58,200 00	
Personal property,	20,215 00	
	<hr/>	178,415 00

Lincoln school building, . . .	\$30,000 00	
27,604 square feet land, . . .	6,900 00	
Personal property, . . .	3,707 00	
	<hr/>	\$40,607 00
Livermore school building, . . .	\$12,000 00	
22,555 square feet land, . . .	6,650 00	
Personal property, . . .	948 00	
	<hr/>	19,598 00
Mann, Horace, school building, . . .	\$20,000 00	
26,361 square feet land, . . .	4,475 00	
Personal property, . . .	1,528 00	
	<hr/>	26,003 00
Ripley school building, . . .	\$2,200 00	
14,567 square feet land, . . .	575 00	
Personal property, . . .	59 00	
	<hr/>	2,834 00
Sewall school building, . . .	\$8,000 00	
14,748 square feet land, . . .	7,375 00	
Personal property, . . .	564 00	
	<hr/>	15,939 00
Warren school building, . . .	\$14,000 00	
18,572 square feet land, . . .	2,300 00	
Personal property, . . .	841 00	
	<hr/>	17,141 00
Washington school building, . . .	\$30,000 00	
30,794 square feet land, . . .	4,000 00	
Personal property, . . .	4,671 00	
	<hr/>	38,671 00
West side school building, . . .	\$1,000 00	
11,880 square feet land, . . .	3,325 00	
	<hr/>	4,325 00
Whittier school building, . . .	\$7,500 00	
15,000 square feet land, . . .	3,000 00	
Personal property, . . .	382 00	
	<hr/>	10,882 00
Winthrop school building, . . .	\$11,000 00	
26,544 square feet land, . . .	1,600 00	
Personal property, . . .	829 00	
	<hr/>	13,429 00
		<hr/>
		\$446,825 00

SUNDRIES.

Old school building, Chestnut street,	\$500 00	
12,000 square feet land,	2,400 00	
	<hr/>	\$2,900 00
Old school building, Green street, .	\$500 00	
24,500 square feet land,	3,600 00	
	<hr/>	4,100 00
Old school building, Upham street, .	\$600 00	
11,400 square feet land,	675 00	
	<hr/>	1,275 00
		<hr/>
		\$8,275 00

WYOMING CEMETERY.

Buildings,	\$2,650 00	
47 and three quarters acres land, .	30,000 00	
Water system,	950 00	
Personal property,	183 00	
	<hr/>	\$33,783 00

PUBLIC WORKS DEPARTMENT.

City hall building,	\$65,000 00	
44,934 square feet land,	67,400 00	
Furniture, fixtures and sundries,		
schedule on file,	8,727 95	
	<hr/>	\$141,127 95

HIGHWAY DIVISION.

Crusher lot, Maple street, 49,015		
square feet land,	\$1,000 00	
Crusher lot, Linwood avenue, 132,877		
square feet land,	3,200 00	
Stone crusher plant, tools, etc., .	4,800 00	
Road rollers, scrapers, plows, sprink-		
ling carts, etc.,	3,217 50	
Horses, carts, harnesses, tools, etc.,	2,516 00	
Stock, crusher,	752 30	
Stock, yard,	322 26	
	<hr/>	\$15,808 06

PUBLIC PARKS.

Ell Pond park,	\$15,000 00	
Buildings, 105 Tremont street,	600 00	
Old High school lot, Emerson street, 30,300 square feet land,	10,600 00	
Melrose common, 4 35-100 acres,	10,000 00	
Sewall Woods Park, 9 acres and 10,000 feet land,	11,250 00	
Strip east side Ell pond,	1,000 00	
Lot, Main and Green streets, 5,000 square feet land,	500 00	
Lot, Main and Lynde streets, 5,000 square feet land,	\$1,250 00	
Settees,	25 00	
	<hr/>	\$50,225 00

SEWER DIVISION.

Sewer system, cost of construction, \$373,948 57	
Personal property,	3,910 70
	<hr/>
	\$377,859 27

WATER DIVISION.

Water system, cost of construction, \$438,988 26	
Personal property,	12,404 79
	<hr/>
	\$451,393 05

SURFACE DRAINAGE.

Cost of construction,	\$18,960 98
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RECAPITULATION.

Charity department,	\$1,429 31
Fire department,	55,081 45
Police department,	905 30
Public library,	14,500 00
School department,	446,825 00
Sundries,	8,275 00
Wyoming cemetery,	33,783 00
City hall,	141,127 95

Highway division,	\$15,808 06
Parks,	50,225 00
Sewer division,	377,859 27
Water division,	451,393 05
Surface drainage,	18,960 98
	<hr/>
	\$1,616,173 37

Report of City Treasurer

FOR THE FINANCIAL YEAR ENDING JANUARY 31, 1903.

Cash in treasury, Feb. 1, 1902, . . .	\$ 8,838 96	
Total receipts for year, . . .	584,038 57	
		<hr/>
Total disbursements for year, . . .		\$592,877 53
		575.393 19
		<hr/>
Balance, cash in treasury Feb. 1, 1903,		\$17,484 34

CEMETERY TRUST FUND.

Amt. to credit of fund Feb. 1, 1902,		\$7,427 50
Received during the year as follows:		
Ellen R. Shapleigh,	\$ 50 00	
H. J. Pettengill,	206 50	
Minot K. Kendall,	150 00	
Oritta E. Simond,	150 00	
F. E. Orcutt,	100 00	
Agnes S. Taylor,	150 00	
Caroline E. Skinner, Adm.,	100 00	
A. C. Clausen,	170 00	
Estate Ann K. Shelton,	180 00	
George E. Fenn,	50 00	
Estate of Ellen A. Mansfield,	250 00	
		<hr/>
		1,556 50
		<hr/>
Amount to credit fund, Feb. 1, 1903,		\$8,984 00

E. TOOTHAKER FUND.

Amt. to credit of fund Feb. 1, 1902,	\$1,419 92	
Received during the year as follows:		
City of Melrose, int. to Feb. 1, 1903,	53 40	
	<hr/>	\$1,473 32
Payments during year,		146 22
		<hr/>
Balance to credit of fund, Feb. 1, 1903,		\$1,327 10

Special fund for celebration of 100th anniversary of Town of Melrose:	
Amt. deposited in Melrose Savings Bank,	\$20 05

WILLIAM R. LAVENDER, City Treasurer,

In account with CITY OF MELROSE.

DR.

Cash in treasury, Feb. 1, 1902,		\$8,838 96
Receipts for the year as follows:		
J. W. Murray, collector, taxes 1898,	\$10 00	
" " " " " 1899,	125 43	
" " " " " 1900,	6,464 70	
" " " " " 1901,	93,464 18	
" " " " " 1902,	153,742 29	
" " " " sewer ass'm'ts,	11,338 29	
" " " " tax titles, 1898,	281 80	
" " " " " 1899,	1,062 28	
" " " " " 1900,	2,455 18	
J. W. Murray, collector, street sprinkling 1900,	114 68	
J. W. Murray, collector, street sprinkling 1901,	1,927 40	
J. W. Murray, collector, street sprinkling 1902,	1,950 87	
	<hr/>	
Amounts carried forward,	\$272,937 10	\$8,838 96

Amounts brought forward,	\$272,937 10	\$8,838 96
J. W. Murray, collector, water rates		
1901,	753 00	
J. W. Murray, collector, water rates		
1902,	42,604 90	
J. W. Murray, collector, water rates		
1903,	5,183 00	
J. W. Murray, collector, water sum-		
mons, 1901,	3 20	
J. W. Murray, collector, water sum-		
mons, 1902,	78 40	
J. W. Murray, collector, excise tax,		
cr. highways,	1,689 06	
Commonwealth of Mass., water, .	232 46	
Commonwealth of Mass.,		
state aid,	\$2,578 00	
Commonwealth of Mass.,		
military aid,	406 23	
Commonwealth of Mass.,		
soldiers' burial,	245 00	
	<hr/>	
Commonwealth of Mass., account	3,229 23	
water rates,	9 00	
Cemetery,	5,662 02	
Cemetery trust fund,	1,556 50	
Charity dept., aid of poor,	2,888 38	
" " contingent,	3 00	
Contingent, city clerks,	500 00	
" sealer weights and measures,	26 50	
Gypsy moth, extermination,	39 25	
Health dept., contingent,	104 45	
Interest, J. W. Murray,		
collector,	\$6,652 61	
Interest, sundry sources,	865 85	
	<hr/>	
Municipal debt, Com-	7,518 46	
monwealth of Mass., \$12,821 18		
Municipal debt, other		
sources,	845 72	
	<hr/>	
	13,666 90	
Amounts carried forward,	\$358,684 81	\$8,838 96

Amounts brought forward,	\$358,684 81	\$8,838 96
Municipal loans,	5,000 00	
Permanent loans,	10,000 00	
Public library, books, etc., dog tax		
2 years,	2,173 26	
Public library building,	1,000 00	
Public works dept., highway div.,		
general repairs and maintenance,	1,584 54	
Public works dept., highway div.,		
stone bounds,	4 35	
See also J. W. Murray, excise tax.		
Reduction of debt, Comm. of Mass.		
nat'l bank and corporation tax,	814 04	
Sewer division, private sewers, . .	2,034 33	
" " construction,	2,308 29	
School department, contingent, . .	987 85	
Sidewalks, new individual walks, . .	1,412 59	
" new continuous walks, . .	639 77	
State aid,	4 00	
Street sprinkling, refund acct., pay		
roll,	15 75	
Soldiers' relief,	195 61	
Soldiers' monument,	70 53	
Temporary loans,	193,203 33	
Toothaker, E., fund,	53 40	
Treasury,	2,175 62	
Water division, maintenance, . . .	1,676 50	
	<hr/>	\$584,038 57
		<hr/>
		\$592,877 53

CR. !

Aldermanic chamber alterations, . .	\$44 40
Bonds for city officers,	170 00
Brown tail moth, extermination of, .	800 00
Cemetery,	5,455 82
Charity department, aid of poor, . .	13,566 83
" " contingent,	100 86
" " clerical assist.,	200 00

Amounts carried forward, . \$20,337 91 \$592,877 53

Amounts brought forward,	\$20,337 91	\$592,877 53
City Hall, improvement of,	1,537 50	
" " repairs to basement,	359 46	
" " heating,	275 00	
" " lighting,	852 78	
" " janitor's salary,	723 50	
" " contingent,	344 59	
City scales,	370 57	
Claims,	1,100 00	
Commonwealth of Mass., transfer of amt. credited wrong account,	9 00	
Contingent, aldermanic,	142 76	
" assessors,	597 65	
" city clerks,	524 11	
" collectors,	800 00	
" general,	3,289 80	
" sealer weights and meas- ures,	18 90	
County tax,	13,355 88	
Dix pond filling,	99 50	
Ell pond park (see also parks),	325 00	
Engineering division, salaries,	2,620 07	
" " supplies and incidentals,	390 23	
Fire department, 4 permanent drivers,	3,120 00	
" " electrician and driver,	876 00	
" " engineer for steamer,	75 00	
" " 55 call men	2,287 44	
" " chief engineer,	150 00	
" " assistant engineer and clerk,	124 99	
Fire department, assistant engineer,	99 99	
" " house steward,	20 00	
" " hay, straw and oats,	1,049 43	
" " coal and wood,	434 71	
" " horse shoeing,	161 29	
" " expressing,	25 60	
" " laundry and new linen,	55 91	
Amounts carried forward,	\$56,5 54 57	\$592,877 53

Amount brought forward.	\$56,554 57	\$592,877 53
Fire department, fire alarm,	942 95	
" " new hose,	490 00	
" " telephone, gas and electric lighting,	227 04	
Fire department, Hose 4, permanent man,	300 00	
" " Hose 4, repairs,	295 29	
" " horse for Hose 3,	250 00	
" " rubber coats,	115 50	
" " 6 horses,	1,350 00	
" " contingent,	759 25	
4th of July celebration,	500 00	
Gypsy moth, extermination of,	198 00	
Health department, collection of ashes to June (see also Public Works department),	318 50	
" " removal of garbage,	1,180 00	
" " salary plumbing in- spector,	650 00	
" " fumigation and dis- infection,	200 00	
" " isolation hospital,	592 31	
" " prevention of conta- gious diseases,	7,012 68	
" " vaccination,	199 15	
" " " compulsory,	997 79	
" " contingent,	1,162 18	
Highway Division, (see Public Works Dept.)		
History, town,	945 23	
Insurance,	2,132 52	
Interest,	32,833 33	
Life saving apparatus, (Ell and Swain's ponds)	77 27	
Mayor's office:		
Clerical assistance,	100 00	
Incidentals,	42 42	
Amounts carried forward,	\$110,425 98	\$592,877 53

Amounts brought forward, . . .	\$110,425 98	\$592,877 53
Melrose common, (Improvement of) . . .	41 28	
Melrose hospital,	1,000 00	
Memorial day,	200 00	
Metropolitan park,	14,439 38	
Military aid,	453 46	
Municipal department, deficiencies of 1901,	837 23	
Municipal loans,	15,000 00	
Murray, James W., col. taxes, refund- ing amount overpaid in 1898, . . .	84	
Parks, (see also Ell pond park) . . .	86 47	
Permanent loans,	19,000 00	
Police department :		
Salary, chief,	1,000 00	
" 11 regular officers,	10,037 50	
" special officers,	695 02	
Contingent,	826 65	
Public works department, highway division:		
General repairs and maintenance, . . .	22,552 78	
Bridges and culverts,	2,413 98	
Catch basins and drains,	1,000 00	
Paving gutters,	2,000 00	
Granite crossings,	499 23	
Removing snow and sanding streets,	1,523 25	
Stone bounds,	53 80	
Edgestones, Main street,	663 02	
Surface drainage,	126 64	
Collecting ashes from June, (see also health department),	823 00	
Wells drain,	699 50	
Public works office :		
Clerk and stenographer,	499 50	
Telephone,	52 07	
Printing, books, etc.,	211 58	
Board of horses,	300 00	

Amounts carried forward, . . . \$207,462 16 \$592,877 53

Amounts brought forward,	\$207,462	16	\$592,877	53
Public library :				
Rent and heating,	1,200	00		
Salaries,	1,077	84		
Books, etc.,	1,297	38		
Public library, new building,	695	53		
Refunded taxes,	93	86		
Salaries,	11,216	67		
School department :				
Teaching and supervision,	56,264	01		
Janitors,	6,004	00		
Books and supplies,	5,199	95		
Fuel,	6,538	62		
Furniture,	600	00		
High school and teachers' library,	99	85		
Printing,	251	75		
Repairs,	3,831	42		
Transportation of pupils,	509	00		
Contingent,	1,581	45		
Washington school, ($\frac{1}{2}$ cost side-walk)	300	00		
Sewer division :				
Construction,	10,037	36		
Maintenance,	720	56		
Private sewers,	2,102	68		
Sewerage tax,	10,561	13		
Sidewalks:				
New continuous walks,	689	59		
" individual "	2,754	02		
Repairs present walks,	1,588	21		
Soldiers' burial,	105	00		
" monument,	841	23		
" relief,	1,854	05		
State aid,	2,537	00		
" tax,	6,375	00		
Street lights,	12,275	78		
Amounts carried forward,	\$356,665	10	\$592,877	53

Amounts brought forward,	. \$356,665	10	\$592,877	53
Street sprinkling,	4,537	40		
Tax titles,	4,931	32		
Temporary loans,	153,621	65		
Toothaker E., fund,	146	22		
Water department,	25,188	30		
Water division:				
Construction,	\$929	95		
Maintenance,	23,398	98		
Relaying pipe,	5,974	27		
			30,303	20
Balance, cash on hand Jan. 31, 1903,	17,484	34		
			<hr/>	<hr/>
			\$592,877	53
			\$592,877	53

STATEMENT OF CITY DEBT.

<i>Cemetery Trust Funds,</i>	\$8,984	00	\$8,984	00
<i>E. Toothaker Fund,</i>	1,327	10	1,327	10

BONDS.

Schoolhouse Loan Bonds.

Series of 1896, due Feb. 24, 1916,	. \$200,000	00	\$200,000	00
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Sewer Loan Bonds.

Series of 1894, due June 1, 1924,	. \$100,000	00		
" " 1895, " June 1, 1925,	. 100,000	00		
" " 1896, " July 1, 1926,	. 50,000	00		
" " 1897, " June 1, 1907,	. 25,000	00		
" " 1897, " June 1, 1912,	. 25,000	00		
" " 1897, " June 1, 1917,	. 50,000	00		
			<hr/>	350,000 00

Town Hall Bonds.

Series of 1892, due Sept. 1, 1912,	. \$45,000	00	45,000	00
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Water Bonds.

Series of 1895, due Nov. 1, 1905,	. \$37,000	00		
" " 1897, " May 1, 1907,	. 50,000	00		
" " 1892, " May 1, 1912,	. 25,000	00		
" " 1892, " Sept. 1, 1912,	. 37,000	00		
" " 1893, " Oct. 1, 1913,	. 50,000	00		
" " 1895, " July 1, 1925,	. 38,000	00		
			<hr/>	237,000 00

Amount carried forward,	.		\$842,311	10
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Amount brought forward, . . . \$842,311 10

Permanent Loans.

On account of Central fire station
and grading school grounds,
note due Jan. 1905, account C.
F. station, . . . \$10,000 00
School grounds, . . . 9,000 00
————— \$19,000 00

On account land adjoining old cem-
etery and Upham street, note
due April 22, 1903, . . . 10,000 00
Central fire station, note due March
25, 1903, . . . 5,400 00
Central fire station, note due March
25, 1903, . . . 3,500 00
Central fire station, note due March
25, 1903, . . . 1,100 00

Park loan coupon notes.

Due May 15, 1903, . . . \$1,000 00
" " " 1904, . . . 1,000 00
" " " 1905, . . . 1,000 00
" " " 1906, . . . 1,000 00
" " " 1907, . . . 1,000 00
" " " 1908, . . . 1,000 00
" " " 1909, . . . 6,000 00
————— 12,000 00

City drainage loan, 1st series.

Due Oct. 30, 1902, . . . \$2,000 00
" " " 1903, . . . 2,000 00
" " " 1904, . . . 2,000 00
" " " 1905, . . . 2,000 00
" " " 1906, . . . 2,000 00
————— 10,000 00
————— 61,000 00

\$903,311 10

Temporary Loans.

Trustees public library, demand note,	\$2,000 00
Melissa A. Todd, demand note, . . .	5,000 00
Sewer loan sinking fund commis-	
sioners, demand,	3,000 00
Harriet A. Austin, due May 22, 1903,	7,000 00
Annie M. Selee, note due May 28,	
1903,	2,600 00
Annie M. Selee, note due June 9, 1903,	400 00
Commonwealth of Massachusetts,	
note due February 4, 1903, . . .	20,000 00
Mary C. Graham, executrix, note	
due July 1903,	2,000 00
Loring, Tolman & Tupper, note due	
April 6, 1903,	15,000 00
Massachusetts Universalist conven-	
tion, note due April 9, 1903, . . .	5,000 00
Elizabeth T. Baker, note due August	
27, 1903,	1,000 00
Loring, Tolman & Tupper, note due	
July, 1903,	10,000 00
Loring, Tolman & Tupper, note due	
June, 1903,	10,000 00
Loring, Tolman & Tupper, note due	
October, 1903,	10,000 00
Loring, Tolman & Tupper, note due	
November, 1903,	15,000 00
Sinking fund commissioners, note	
due November 15, 1903, . . .	1,000 00
Sinking fund commissioners, note	
due November 15, 1903, . . .	1,200 00
Sinking fund commissioners, note	
due November 15, 1903, . . .	575 00
Sinking fund commissioners, note	
due Nov. 15, 1903,	8,000 00
Sinking fund commissioners, note	
due November, 15, 1903, . . .	6,000 00

Amount carried forward, . . . \$124,775 00

Amount brought forward,	\$124,775 00
Sinking fund commissioners, note due November, 15, 1903, . . .	10,000 00
Sinking fund commissioners, note due, January 29, 1903, . . .	1,100 00
Sinking fund commissioners, note due January 29, 1904, . . .	2,000 00
Sinking fund commissioners, note due January 29, 1904, . . .	1,315 00
Sinking fund commissioners, note due January 29, 1904, . . .	3,513 33

Municipal Loan.

Massachusetts Universalist conven- tion, note due October 29, 1903,	5,000 00
	<hr/> \$147,703 33

Examined and found correct.

EDWIN C. GOULD,

June 6, 1903.

City Auditor.

MELROSE, Feb. 1, 1903

W. R. LAVENDER, Treasurer,

In account with WATER LOAN SINKING FUND.

1902		
Jan. 31.	Balance on hand, . . .	\$3,473 90
Feb. 1.	Interest, Melrose Nation- al bank on deposit, . . .	2 35
March 1.	Interest, Melrose Nation- al bank, on deposit, . . .	3 16
	Amount carried forward, . . .	<hr/> \$3,479 41

	Amount brought forward, . . .	\$3,479 41
March 24.	Interest, City of Melrose, dis. @ $3\frac{1}{2}\%$ note, Mar. 24, 6 mos., \$1,100,	19 25
April 1.	Interest, 4 coups. April '02, water bonds, . . .	80 00
May 1.	Interest, 1 coup. May '02, water bonds, . . .	20 00
May 1.	Interest, 5 coups. May '02, water bonds, . . .	100 00
May 23.	Interest, City of Melrose, 6 mos. to April 30, surf. drain. loan, 1st series \$10,000 @ $3\frac{1}{2}\%$, . . .	175 00
June 30.	Interest, 10 coups., July '02, water bonds, . . .	200 00
July 1.	Interest, Melrose Savings bank, on deposit, . . .	20 74
Aug. 20.	City of Melrose, demand note March 24, 1902, . . .	500 00
Aug. 20.	Interest, 4 mos. 26 days on \$500 note, . . .	7 10
Aug. 20.	Interest, Melrose Nation- al bank, on deposits, April 1, \$2.87; May 1, \$0.55; June 1, \$.87; July 1, \$1.41; Aug. 1, \$1.83.	7 53
Sept. 25.	City of Melrose, note March 24, 1902, . . .	1,100 00
Sept. 25.	Interest, dis. on note Sept. 25, 6 mos. @ $4\frac{1}{4}\%$, . . .	24 75
Oct. 6.	Interest, 4 coups. Oct. '02, water bonds, . . .	80 00
Nov. 26.	Interest, 5 coups. Nov. '02, water bonds, . . .	100 00
Nov. 26.	Interest, 1 coup. Nov. '02, water bonds, . . .	20 00
	Amount carried forward, . . .	\$5,933 87

	Amount brought forward, . . .	\$5,933 78	
1903			
Jan. 7.	Interest, 10 coups. Jan. '03, water bonds, . . .	200 00	
Jan. 1.	Interest, Melrose National bank, on deposits, Sept. 1, \$1.99; Oct. 1, \$0.68; Nov. 1, \$0.10; Jan. 1, \$0.18, . . .	2 95	
Jan. 1.	Interest, Melrose Savings bank, on deposits, . . .	15 81	
Feb. 24.	City of Melrose, surplus of 1901, . . .	733 37	
		<hr/>	\$6,885 91

CR.

1902			
March 24.	City of Melrose, for note March 24, 6 mos., dis. 3½%	\$1,100 00	
March 24.	City of Melrose for demand note, March 24,	500 00	
May 8.	Boston Safe Dep. & Trust Co., ½ rent box 1 year to May 15, 1903, . . .	7 50	
Sept. 25.	City of Melrose, for note Sept. 25, 6 mos., dis. @ 4%,	1,100 00	
Oct. 8.	2 Town of Milton bonds, Aug. 1, 1902, 10 yrs. @ 3½%,	2,000 00	
Oct. 8.	Premium on two Milton bonds @ 101¾,	35 00	
Oct. 8.	Interest on two Milton bonds, Aug. 1 to date, @ 3½%,	13 02	
	Balance to new account,	2,130 39	
		<hr/>	\$6,885 91
1903			
Jan. 31.	Balance forward,	2,130 39	

MELROSE, Feb. 1, 1903.

List of securities belonging to Water Loan Sinking Fund:

1 Melrose water loan		
bond, 1905, par, .	\$1,000 00	\$1,056 00
5 Melrose water loan		
bonds, 1907, par, .	5,000 00	5,232 22
4 Melrose water loan		
bonds, 1913, par, .	4,000 00	4,000 00
10 Melrose water loan		
bonds, 1925, par, .	10,000 00	10,000 00
2 Town of Milton bonds,		
1912, par,	2,000 00	2,048 02
Note, city of Melrose,		
1903,		2,000 00
4 notes, City of Melrose,		
surface drainage, 1903		
to 1906,		8,000 00
Note, City of Melrose,		
1903,		1,100 00
Cash, Melrose Savings		
Bank, . \$1,070 43		
Cash, Melrose		
Nat'l Bank, 1,059 96		
		<hr/>
		2,130 39
		<hr/>
		\$35,566 63

Amount in sinking fund as above, . \$35,566 63

" " " " Jan. 31, 1902, 33,762 12

Increase, \$1,804 51

MELROSE, Feb. 1, 1903.

WILLIAM R. LAVENDER, Treasurer,

In account with SEWER LOAN SINKING FUND.

1902

Jan. 31.	Balance on hand, . . .	\$3,442 00
Feb. 1.	Interest, Melrose Nat'l Bank, on deposits, . . .	3 77
	Interest, City of Melrose, 6 mos. @ $3\frac{1}{2}\%$ on \$3,000 demand note, . . .	52 50
	Interest, 5 coups. Malden bonds,	100 00
March 1.	Interest, Melrose Nat'l Bank on deposits, . . .	5 31
	Interest, 3 coups. B. & L. R. R. bonds,	60 00
March 24.	Interest, City of Melrose, dis. at $3\frac{1}{2}\%$ on note March 24, 6 mos. \$3,500, . . .	61 25
April 1.	Interest, 4 coupons Wal- tham bonds,	80 00
April 21.	Interest, City of Melrose, 6 mos. to Apr. 17, on de- mand, note \$36,521.65 . . .	639 08
May 23.	Interest, 8 coups. Melrose park loan,	260 00
	City of Melrose, Park loan note No. 3,	1,000 00
June 30.	Interest, 10 coups. Mel- rose sewer bonds,	200 00
	Interest, 3 coups. C. B. & Q. R. R. bonds,	52 50
	Interest, 5 coups. Fitch- burg R. R. bonds,	125 00
July 1.	Interest, Melrose Savings Bank, on deposits,	1 17

 Amount carried forward, . . . \$6,082 58

	Amount brought forward, . . .	\$6,082 58
Aug. 1.	Interest, 5 coups. Malden bonds,	100 00
	Interest, Melrose Nat'l Bank, on deposits, Apr. 1, \$4.77; May 1, \$.80; June 1, \$2.11; July 1, \$3.24; Aug. 1, \$4.21 . . .	15 13
Sept. 25.	City of Melrose, note of March 24,	3,500 00
	Interest, City of Melrose, dis. on note, Sept. 25, 6 mos. @ $4\frac{1}{4}\%$,	78 75
Oct. 6.	Interest, City of Melrose, 6 mos. @ $3\frac{1}{2}\%$, demand note, \$3,000,	52 50
	Interest, 3 coups. B. & L. R. R. bonds,	60 00
	Interest, 4 coups. Wal- tham bonds,	80 00
Nov. 26.	Interest, 6 coups. park loan note,	120 00
	Interest, 1 coup. park loan note,	120 00
Dec. 27.	Interest, 5 coups., Fitch- burg R. R. bonds,	125 00
	Interest, 10 coups. Mel- rose sewer bonds,	200 00
1903		
Jan. 1.	Interest, Melrose Nat'l Bank, on deposits, Sep. 1, \$3.26; Oct. 1, \$1.14; Nov. 1, \$2.97; Jan. 1, \$1.19;	8 56
	Interest, Melrose Savings Bank, on deposits,	1 19
Jan. 7.	Interest, 3 coups. C. B. & Q. R. R. bonds,	52 50
Amount carried forward, . . .		<hr/> \$10,596 21

	Amount brought forward, . . .	\$10,596 21	
Jan. 10.	Interest, City of Melrose, on demand note \$36,521.65, . . .	639 13	
Feb.	City of Melrose, demand note April 17, . . .	36,521 65	
	Interest, City of Melrose, to date on demand note \$36,521.65, . . .	174 31	
		<hr/>	\$47,931 30

CR.

1902

March 24.	City of Melrose, for de- mand note March 24, 6 mos., dis. at $3\frac{1}{2}\%$, . . .	\$3,500 00
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1902

May 8	Boston S. D. & Trust Co., $\frac{1}{2}$ rent of box, 1 yr. to May 15, 1903, . . .	7 50
Sept. 25.	City of Melrose, for note Sept. 25, 6 mos., . . .	3,500 00
Oct. 8.	2 Town of Milton $3\frac{1}{2}\%$ bonds, Aug. 1, 1902, 10 years, . . .	2,000 00
	Premium on Milton bonds @ $101\frac{3}{4}$. . .	35 00
	Interest on Milton bonds Aug. 1 to date, . . .	13 03
	Part of 1 Town of Milton bond, $3\frac{1}{2}\%$, Aug. 1, 1902, 10 yrs., (the other part owned by school fund) . . .	600 00

Amount carried forward, . . . \$9,655 53

Amount brought forward,	\$9,655 53	
Feb. City of Melrose, for notes as follows :		
Nov. 15, '02, 1 yr. @ 4%,	1,000 00	
Nov. 15, 02, 1 yr. @ 4¼%,	1,200 00	
" " " " " 4¼%,	575 00	
" " " " " 4¼%,	8,000 00	
" " " " " 4¼%,	10,000 00	
" " '03, " " 4¼%,	6,000 00	
Jan. 29, " " " 4¼%,	1,100 00	
" " " " " 4¼%,	2,000 00	
" " " " " 4¼%,	1,315 00	
" " " " " 4¼%,	3,513 33	
Balance to new account,	3,572 44	
	<hr/>	\$47,931 30

MELROSE, Feb. 1, 1903.

1903

List of securities belonging to Sewer
Loan Sinking Fund:

7 Melrose park loan coupon notes, 1903-08, par,	\$12,000 00	\$12,000 00
10 Melrose sewer bonds, 1917, par,	10,000 00	11,258 05
4 City of Waltham bonds, 1913, par,	4,000 00	4,398 44
5 Fitchburg R. R. bonds, 1903, par,	5,000 00	5,252 78
3 Boston & Lowell R. R. bonds, 1905, par,	3,000 00	3,132 58
3 Chicago, Burlington & Q. R. R. bonds, 1949, par,	3,000 00	3,157 42
5 City of Malden bonds, 1903-04, par,	5,000 00	5,123 70
2 Town of Milton bonds, 1912, par,	2,000 00	2,048 03
Part of 1 Milton bond, 1912, the other part owned by school fund,		600 00
Note, City of Melrose, demand,		3,000 00
" " " " 1903,		3,500 00
	<hr/>	

Amounts carried forward, \$44,000 00 \$53,471 00

Amounts brought forward,	\$44,000 00	\$53,471 00
10 Notes, City of Melrose, 1903-4,		34,703 33
Cash, Melrose Sav. Bank,	\$80 90	
" " Nat'l "	3,491 54	
		<u>3,572 44</u>
		\$91,746 77
Amount in Sinking Fund as above,	\$91,746 77	
Amount in Sinking Fund Jan. 31, '02,	88,286 62	
		<u></u>
Increase,	\$3,460 15	

MELROSE, Feb. 1, 1903.

WILLIAM R. LAVENDER, Treasurer.

In account with SCHOOL HOUSE LOAN SINKING FUND.

1902

Jan. 31.	Balance on hand,	\$5,620 31
Feb. 1.	Interest, Melrose Nat'l Bank, on deposits,	6 08
March 1.	Interest, Melrose Nat'l Bank, on deposits,	8 20
March 24.	City of Melrose, dis. on note March 24, 6 mos., \$5,400 @ 3½%,	94 50
July 1.	Interest, 10 coups. July, 1902, Clinton bonds,	175 00
	Interest, Melrose Savings Bank, on deposit,	2 97
	Interest, City of Melrose, 6 mos. to June 27 on note \$2,000,	35 00
Aug. 20.	City of Melrose, demand note, Dec. 27, 1900,	2,000 00
	Interest, City of Melrose, 1 mo., 23 dys., on \$2,000 demand note, Dec. 27,	10 24
	Amount carried forward,	\$7,952 30

	Amount brought forward, .	\$7,952 30	
	Interest, Melrose Nat'l Bank, on deposits, Apr. 1, \$7.22; May 1, \$.13; June 1, \$.13; July 1, \$.45; Aug. 1, \$.58; . . .	8 51	
Sept. 25.	City of Melrose, note March 24, 1902, 6 mos., Interest, City of Melrose, dis. on note Sept. 25, 6 mos. @ $4\frac{1}{4}\%$, . . .	5,400 00 121 50	
1903			
Jan. 1.	Interest, Melrose Nat'l Bank, on deposits, Sept. 1, \$2.94; Oct. 1, \$.03; Nov. 1, \$.16; Jan. 1, \$.03; . . .	4 16	
	Interest, Melrose Savings Bank, on deposits, . . .	3 01	
Jan. 7.	Interest, 10 coups. July, 1902, Clinton bonds, . . .	175 00	
		<hr/>	\$13,664 48

CR.

1902			
March 24.	City of Melrose, for note March 24, 6 mos. dis. @ $3\frac{1}{2}\%$, . . .	\$5,400 00	
Sept. 25.	City of Melrose, for note Sept. 25, 6 mos. dis. @ $4\frac{1}{4}\%$, . . .	5,400 00	
Oct. 8.	2 Town of Milton bonds, $3\frac{1}{2}\%$, Aug. 1, 10 yrs., Premium on Milton bond @ $101\frac{3}{4}$, . . .	2,000 00 35 00	
	Interest on Milton bond Aug. 1 to date, @ $3\frac{1}{2}\%$, . . .	13 03	
		<hr/>	
	Amount carried forward, . . .	\$12,848 03	

Amount brought forward,	\$12,848 03	
Part of 1 Town of Milton bond, (other part owned by sewer fund)		
Aug. 1, 1902, 10 yrs.,	400 00	
Premium on Milton bond @ 101¾%,	17 50	
Interest on Milton bond, Aug. 1 to date @ 3½%,	6 52	
Balance to new account,	392 43	\$13,664 48

MELROSE, Feb. 1, 1903.

List of securities belonging to School House Loan Sinking Fund:

1903

10 Clinton bonds, 1930, par,	\$10,000 00	\$10,924 72
2 Town of Milton bonds, 1912, par,	2,000 00	2,048 03
Part of 1 Town of Milton bond, 1912, other part belongs to sewer fund,	400 00	424 02
Note, City of Melrose, 1903,		5,400 00
Cash, Melrose Sav. Bank,	\$204 43	
" " Nat'l "	188 00	392 43
		<u>\$19,189 20</u>

Amount in Sinking Fund as above,	\$19,189 20
" " " " Jan. 31, 1902,	18,545 03

Increase,	\$644 17
-----------	----------

I have examined the accounts of W. R. Lavender, Treasurer, and find that they agree with his books as certified by the Sinking Fund Commissioners.

EDWIN C. GOULD,
City Auditor.

June 6, 1903.

Report of Sinking Fund Commissioners.

*To the Honorable the Mayor and Aldermen of the City of
Melrose:*

WATER LOAN SINKING FUND.

Balance from last year,	\$3,473 90
Surplus from 1901,	733 37
Received from City of Melrose, }	
Coupons on sundry bonds,	1,026 10
Interest from Melrose Savings Bank,	36 55
" " Melrose National Bank,	15 99
	\$5,285 91

CR.

Loaned City of Melrose,	\$1,100 00
Boston Safe Dep. & Trust Co., one-half rent box,	7 50
Bought two (2) Town of Milton bonds,	2,000 00
Premium on same,	35 00
Interest on Town of Milton bonds,	13 02
Balance to new account,	2,130 39
	\$5,285 91

Balance,	\$2,130 39
There is due this fund being amt. surplus for 1902,	\$5,221 74

LIST OF SECURITIES BELONGING TO WATER LOAN SINKING FUND.

1 Melrose water loan bond, 1905,	\$1,056 00
5 " " " bonds, 1907,	5,232 22
4 " " " " 1913,	4,000 00
10 " " " " 1925,	10,000 00
2 Town of Milton bonds, 1912,	2,048 02
Note, City of Melrose,	2,000 00
	\$24,336 24
Amount carried forward,	\$2,4336 24

Amount brought forward,	\$24,336 24
4 notes, City of Melrose drainage loan, 1903 to 1906,	8,000 00
Note, City of Melrose, 1903,	1,100 00
Cash in Melrose Savings Bank,	1,070 43
" " Melrose National Bank,	1,059 96
	<hr/>
	\$35,566 63

The water debt, to the payment of which the
above sinking fund is to be applied is as
follows:

Series of 1885, due Nov. 1, 1905,	\$37,000 00
" " 1887, " May 1, 1907,	50,000 00
" " 1892, " May 1, 1912,	25,000 00
" " 1892, " Sept. 1, 1912,	37,000 00
" " 1893, " Oct. 1, 1913,	50,000 00
" " 1895, " July 1, 1925,	38,000 00
	<hr/>
	\$237,000 00

SEWER LOAN SINKING FUND.

Balance from last year,	\$3,442 00
Interest from Melrose National Bank,	32 77
" " Melrose Savings Bank,	2 36
Coupons on sundry bonds and interest on sundry notes,	3,432 52
Park loan note, City of Melrose,	1,000 00
Note, City of Melrose,	3,500 00
Demand note, City of Melrose,	36,521 65
	<hr/>
	\$47,931 30

CR.

City of Melrose, demand note,	\$ 3,500 00
Boston S. Dep. & Trust Co., one-half rent of box,	7 50
City of Melrose note,	3,500 00
	<hr/>
Amount carried forward,	\$7,007 50

Amount brought forward,	\$7,007 50
2 Town of Milton bonds,	2,000 00
Premium on same,	35 00
Interest on same,	13 03
Part of 1 Town of Milton bond,	600 00
City of Melrose for vrs. notes (10) (1903-04),	34,703 33
Balance to new account,	3,572 44
	<hr/>
	\$47,931 30

There is due this fund, being amt. surplus for
1902, \$2,653 81

LIST OF SECURITIES BELONGING TO SEWER LOAN SINKING FUND.

7 Melrose park loan coupon notes, 1903-08,	\$12,000 00
10 " sewer bonds, 1917,	11,258 05
4 City of Waltham bonds, 1913,	4,398 44
5 Fitchburg R. R. bonds, 1903,	5,252 78
3 Boston & Lowell R. R. bonds, 1905,	3,132 58
3 C. B. & Q. R. R. bonds, 1949,	3,157 42
5 City of Malden bonds, 1903-04,	5,123 70
2 Town of Milton bonds, 1912,	2,048 03
Part of 1 Town of Milton bond, 1912,	600 00
Note, City of Melrose, demand,	3,000 00
" " " 1903,	3,500 00
10 notes, City of Melrose, 1903-04,	34,703 33
Cash in Melrose Savings Bank,	80 90
" " Melrose National Bank,	3,491 54
	<hr/>
	\$91,746 77

The sewer loan to the payment of which the
above sinking fund is to be applied, is as
follows:

Series of 1897, due June 1st, 1907,	\$25,000 00
" " 1897, " " " 1912,	25,000 00
" " 1897, " " " 1917,	50,000 00
" " 1894, " " " 1924,	100,000 00
" " 1895, " " " 1925,	100,000 00
" " 1896, " " " 1926,	50,000 00
	<hr/>
	\$350,000 00

SCHOOL HOUSE LOAN SINKING FUND.

Balance from last year,	\$5,620 31
Interest from Melrose National Bank,	26 95
“ “ Melrose Savings Bank,	5 98
“ coupons Clinton bonds,	350 00
“ on sundry notes,	166 74
City of Melrose, discount on note,	94 50
Note, City of Melrose,	5,400 00
“ “ “ “ demand,	2,000 00
	<hr/>
	\$13,664 48

2 notes, City of Melrose,	10,800 00
2 Town of Milton bonds,	2,000 00
Premium on same,	35 00
Interest on same,	13 03
Part of 1 Town of Milton bond,	400 00
Premium on “ “ “ “	17 50
Interest “ “ “ “	6 52
Balance to new account,	392 43
	<hr/>
	\$13,664 48

LIST OF SECURITIES BELONGING TO SCHOOL HOUSE LOAN
SINKING FUND.

10 Clinton bonds, 1930,	10,924 72
2 Town of Milton bonds, 1912,	2,048 03
Part of 1 Town of Milton bond, 1912,	424 02
Note, City of Melrose, 1903,	5,400 00
Cash in Melrose National Bank,	188 00
“ “ Melrose Savings Bank,	204 43
	<hr/>
	\$19,189 20

The school house loan to the payment of which
the above fund is to be applied is due

February 4th, 1916, \$200,000 00

DANIEL RUSSELL,

JOHN W. FARWELL,

ROYAL P. BARRY,

Board of Sinking Fund Commissioners.

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